EXHIBIT 14 Continued

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INFORMATION DISCLOSURE	Application Number		15705172		
	Filing Date		2017-09-14		
	First Named Inventor Stephe		phen Donald WILTON		
(Not for submission under 37 CFR 1.99)	Art Unit		1674		
(Not for submission under 57 Of K 1.33)	Examiner Name Not You		t Yet Assigned		
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Attorney Docket Number

1	Laboratory Notebook Entry (Exon 51 Experiments): RT-PCR Analysis of 8036 Cells, Pages 2, Exhibit Number 1179 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
2	Laboratory Notebook Entry (Exon 51 Experiments): RT-PCR Analysis of KM155.C25 Cells, Pages 2, Exhibit Number 1178 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
3	Laboratory Notebook Entry (Exon 51 Experiments): Transfection of 8036 Cells, Pages 1, Exhibit Number 1172 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
4	Laboratory Notebook Entry (Exon 51 Experiments): Transfection of KM155.C25 Cells, Pages 1, Exhibit Number 1171 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
5	Laboratory Notebook Entry (Exon 53 Experiments): RT-PCR Analysis of KM155.C25 Cells, Pages 2, Exhibit Number 1180 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
6	Laboratory Notebook Entry (Exon 53 Experiments): RT-PCR Analysis of R1809 Cells, Pages 2, Exhibit Number 1181 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
7	Laboratory Notebook Entry (Exon 53 Experiments): Transfection of KM155.C25 Cells, Pages 1, Exhibit Number 1173 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
8	Laboratory Notebook Entry (Exon 53 Experiments): Transfection of R1809 Cells, Pages 1, Exhibit Number 1174 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
9	Claims from US Application No. 11/233,495, 6 pages, dated September 21, 2005 (Exhibit Number 2068 filed in nterferences 106008, 106013, 106007 on November 18, 2014)	
10	Laboratory Notebook Entry: General RNA recovery, Pages 2, Exhibit Number 1176 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
11	Laboratory Notebook Entry: Lab-on-a-Chip Analysis, Pages 3, Exhibit Number 1184 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
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Attorney Docket Number

AVN-008CN41

STATEMENT BY APPLICANT

23	MANN, Christopher J. et al., "Improved antisense oligonucleotide induced exon skipping in the mdx mouse model of muscular dystrophy," The Journal of Gene Medicine, Vol. 4:644-654 (2002)	
24	MANNINO, Raphael J. et al., "Liposome Mediated Gene Transfer," BioTechniques, Vol. 6(7):682-690 (1988)	
25	Manual of Patent Examining Procedure 2308.02 (6th ed., rev. 3, July 1997), (University of Western Australia Exhibit 2143, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-2).	
26	Manzur A, et al.,. "Glucocorticoid corticosteroids for Duchenne muscular dystrophy," Cochrane Database Syst Rev. 2004;(2):CD003725.	
27	MARSHALL, N.B. et al., "Arginine-rich cell-penetrating peptides facilitate delivery of antisense oligomers into murine eukocytes and alter pre-mRNA splicing," Journal of Immunological Methods, Vol. 325:114-126 (2007)	
28	Mathews et al., "Expanded Sequence Dependence of Thermodynamic Parameters Improves Prediction of RNA Secondary Structure," J. Mol. Biol. 288:911-940 (1999), (University of Western Australia Exhibit 2131, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-31).	
29	Mathews et al., "Expanded Sequence Dependence of Thermodynamic Parameters Improves Prediction of RNA Secondary Structure," J. Mol. Biol., Vol. 288, pp. 911-940 (1999), Exhibit Number 1212 filed in Interferences 106,007 and 106,008 on February 17, 2015.	
30	MATSUO, Masafumi et al., "Exon Skipping during Splicing of Dystrophin mRNA Precursor due to an Intraexon Deletion in the Dystrophin Gene of Duchenne Muscular Dystrophy Kobe," J. Clin. Invest., Vol. 87:2127-2131 (1991)	
31	MATSUO, Masafumi et al., "Treatment of Duchenne Muscular Dystrophy with Oligonucleotides against an Exonic Splicing Enhancer Sequence," Basic Appl. Myol., Vol. 13(6):281-285 (2003)	
32	MATSUO, Masafumi, "Duchenne and Becker Muscular Dystrophy: From Gene Diagnosis to Molecular Therapy," UBMB Life, Vol. 53:147-152 (2002)	
33	MATSUO, Masafumi, "Duchenne/Becker muscular dystrophy: from molecular diagnosis to gene therapy," Brain & Development, Vol. 18:167-172 (1996)	

Case 1:21-cv-01015-JLH Page 6 of 361 PageID #: Tument 435-1 Application Number 15705172 Filing Date 2017-09-14 INFORMATION DISCLOSURE First Named Inventor Stephen Donald WILTON Art Unit 1674 (Not for submission under 37 CFR 1.99) **Examiner Name** Not Yet Assigned

AVN-008CN41

Attorney Docket Number

STATEMENT BY APPLICANT

MATTEUCCI, Mark, "Structural modifications toward improved antisense oligonucleotides," Perspectives in Drug 34 Discovery and Design, Vol. 4:1-16 (1996) Mazzone E, et al. "Functional changes in Duchenne muscular dystrophy: a 12-month longitudinal cohort study," 35 Neurology 2011;77(3):250-6. MCCARVILLE, M. Beth et al., "Rhabdomyosarcoma in Pediatric Patients: The Good, the Bad, and the Unusual," AJR, 36 Vol. 176:1563-1569 (2001) (Exhibit Number 1034 filed in interferences 106008, 106007 on November 18, 2014) MCCLOREY, G. et al., "Antisense oligonucleotide-induced exon skipping restores dystrophin expression in vitro in a 37 canine model of DMD," Gene Therapy, Vol. 13:1373-1381 (2006) MCCLOREY, G. et al., "Induced dystrophin exon skipping in human muscle explants," Neuromuscular Disorders, Vol. 38 16:583-590 (2006) MCCLOREY, Graham et al., "Splicing intervention for Duchenne muscular dystrophy," Current Opinion in 39 Pharmacology, Vol. 5:529-534 (2005) McDonald CM, et al., "Profiles of Neuromuscular Diseases, Duchenne muscular dystrophy," Am J Phys Med Rehabil 40 1995:74:S70-S92 McDonald CM, et al., "The 6-minute walk test as a new outcome measure in Duchenne muscular dystrophy," Muscle 41 Nerve 2010;41:500-10. McDonald CM, et al., "The 6-minute walk test in Duchenne/Becker muscular dystrophy: longitudinal observations," 42 Muscle Nerve 2010;42: 966-74. Mendell JR et al., "Evidence-based path to newborn screening for Duchenne muscular Dystrophy," Ann Neurol 43 2012;71:304-13. Mendell JR, et al., "Dystrophin immunity revealed by gene therapy in Duchenne muscular dystrophy," N Engl J Med 44 2010;363:1429-37.

INFORMATION DISCLOSURE	rument 435-1 File Application Number	d 12/	/ 18/23 Page 7 of 361 PageID #:			
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	45	Mendell JR, et al., "Randomized, double-blind six-month trial of prednisone in Duchenne's muscular dystrophy," N Engl J Med 1989;320:1592-97.								
		MENDELL, Jerry R. et al., "Eteplirsen for the Treatment of Duchenne Muscular Dystrophy," Ann. Neurol., Vol. 74:637-647 (2013) (Exhibit Number 2058 filed in interferences 106008, 106013, 106007 on November 18, 2014)								
	47	MENDELL, Jerry R. et al., "Eteplirsen in Duchenne Muscular Dystrophy (DMD): 144 Week Update on Six-Minute Walk Test (6MWT) and Safety," slideshow, presented at the 19th International Congress of the World Muscle Society, 17 pages (2014) (Exhibit Number 2059 filed in interferences 106008, 106013, 106007 on November 18, 2014)								
	48	MENDELL, Jerry R. et al., "Gene therapy for muscular dystrophy: Lessons learned and path forward," Neuroscience Letters, Vol. 527:90-99 (2012)								
	49	Merlini L, et al., "Early corticosteroid treatment in 4 Duchenne muscular dystrophy patients: 14-year follow-up," Muscle Nerve 2012;45:796-802.								
	50	Mfold illustrations for Exon 51 and Exon 53 with varying amounts of intron sequence, (University of Western Australia Exhibit 2132, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-2).								
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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That no item of information contained in the information disclosure statement was cited in a communication from a
foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification
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statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
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	Attorney Docket Number		AVN-008CN41	

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1	Sarepta Briefing Information for the April 25, 2016 Meeting of the Peripheral and Central Nervous System Drugs Advisory Committee, Eteplirsen Briefing Document, NDA 206488, 186 pages.	
2	Sarepta Presentation at Peripheral and Central Nervous System Drugs Advisory Committee, April 25, 2016, 133 pages	
3	Sarepta Press Release, Sarepta Issues Statement on Advisory Committee Outcome for Use of Eteplirsen in the Treatment of Duchenne Muscular Dystrophy, April 25, 2016, 2 pages	
4	Sarepta Therapeutics Press Release, dated January 12, 2015, Exhibit Number 1119 filed in interferences 106,007 and 106,008 on February 17, 2015.	
5	Sarepta Therapeutics, Advisory Committee Briefing Materials: Available for Public Release, "Peripheral and Central Nervous System Drugs Advisory Committee," Eteplirsen Briefing Document Addendum, NDA 206488, pages 1-9, dated January 22, 2016.	
6	Sarepta Therapeutics, Advisory Committee Briefing Materials: Available for Public Release, "Peripheral and Central Nervous System Drugs Advisory Committee," Eteplirsen Briefing Document, NDA 206488, pages 1-166, dated January 22, 2016.	
7	Sarepta Therapeutics, Inc. News Release, "Sarepta Therapeutics Announces FDA Accelerated Approval of EXONDYS 51™ (eteplirsen) injection, an Exon Skipping Therapy to Treat Duchenne Muscular Dystrophy (DMD) Patients Amenable to Skipping Exon 51," September 19, 2016, 2 pages.	
8	Sarepta, "AVI BioPharma Initiates Dosing in Phase 2 Study of Eteplirsen in Duchenne Muscular Dystrophy Patients," press release, 4 pages, dated August 15, 2011 (Exhibit Number 2082 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
9	Sarepta, "Sarepta Therapeutics Announces Eteplirsen Demonstrates Continued Stability on Walking Test through 120 Weeks in Phase lib Study in Duchenne Muscular Dystrophy," press release, 3 pages, dated January 15, 2014 (Exhibit Number 2034 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
10	Sarepta, "Sarepta Therapeutics Reports Long-Term Outcomes through 144 Weeks from Phase IIb Study of Eteplirsen in Duchenne Muscular Dystrophy," press release, http://investorrelations.sarepta.com/phoenix.zhtml?c=64231& p=irol-newsArticle&id=1946426, 4 pages, dated July 10, 2014	
11	Scully, Michele et al., "Review of Phase II and Phase III Clinical Trials for Duchenne Muscular Dystrophy", Expert Opinion on Orphan Drugs, Vol.1(1):33-46 (2013)	

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12	Second Preliminary Amendment filed in US Application No. 13/550,210, 5 pages, dated January 3, 2013 (Exhibit Number 2062 filed in interferences 106008, 106013, 106007 on November 18, 2014)
13	Second Written Opinion for Application No. PCT/AU2010/001520, 7 pages, dated October 13, 2011
14	Semi Quantitative Lab-on-Chip Analysis of Second PCR Product, Pages 1, Exhibit Number 1183 filed in Interferences 106,007 and 106,008 on February 16, 2015.
15	Sequence Listing - Serial No. 13/550,210, as filed July 16, 2012 (9 pages), Exhibit Number 1205 filed in Interferences 106,007 and 106,008 on February 17, 2015.
16	Sequence of Exon 46 of Dystrophin Gene, 1 page
17	Sequence of Exon 51 of Dystrophin Gene, 1 page
18	Shabanpoor et al., "Bi-specific splice-switching PMO oligonucleotides conjugated via a single peptide active in a mouse model of Duchenne muscular dystrophy," Nucleic Acids Res., pp. 1-11 (December, 2014), Exhibit Number 1114 filed in interferences 106,007 and 106,008 on February 17, 2015.
19	SHAPIRO, Marvin B. et al., "RNA splice junctions of different classes of eukaryotes: sequence statistics and functional implications in gene expression," Nucleic Acids Research, Vol. 15(17):7155-7174 (1987)
20	SHERRATT, Tim G. et al., "Exon Skipping and Translation in Patients with Frameshift Deletions in the Dystrophin Gene," Am. J. Hum. Genet., Vol. 53:1007-1015 (1993)
21	SHIGA, Nobuyuki et al., "Disruption of the Splicing Enhancer Sequence within Exon 27 of the Dystrophin Gene by a Nonsense Mutation Induced Partial Skipping of the Exon and Is Responsible for Becker Muscular Dystrophy," J. Clin. Invest., Vol. 100(9):2204-2210 (1997)
22	SHIMIZU, Miho et al., "Oligo(2'-O-methyl)ribonucleotides Effective probes for duplex DNA," FEBS Letters, Vol. 302 (2):155-158 (1992) (Exhibit Number 1035 filed in interferences 106008, 106007 on November 18, 2014)

Case 1:21-cv-01015-JLH Doc	ument 435-1 Filed 12/1 Application Number		18/23 Page 13 of 361 PageID #: 15705172	
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23	Siemens Healthcare Diagnostics, Inc. v. Enzo Life Sciences, Inc., 2013 WL 4411227, *11 [Parallel cite: U.S.D.C., D. Mass., Civil No. 10-40124-FDS], Decided Aug. 14, 2013 (12 pages); [Cited as: 2013 WL 4411227], Exhibit Number 1210 filed in Interferences 106,007 and 106,008 on February 17, 2015.
24	SIERAKOWSKA, Halina et al., "Repair of thalassemic human beta-globin mRNA in mammalian cells by antisense bligonucleotides," Proc. Natl. Acad. Sci. USA, Vol. 93:12840-12844 (1996)
25	Sontheimer et al., "Metal ion catalysis during group II intron self-splicing: parallels with the spliceosome," Genes & Development, Vol. 13, pp. 1729-1741 (1999), Exhibit Number 1195 filed in Interferences 106,007 and 106,008 on February 17, 2015.
26	Sontheimer et al., "Three Novel Functional Variants of Human U5 Small Nuclear RNA," Vol. 12, No. 2, pp. 734-746 (Feb., 1992), Exhibit Number 1194 filed in Interferences 106,007 and 106,008 on February 17, 2015.
27	SONTHEIMER, Erik J. et al., "Metal ion catalysis during splicing of premessenger RNA," Nature, Vol. 388:801-805 (1997) (Exhibit Number 1036 filed in interferences 106008, 106007 on November 18, 2014)
28	SONTHEIMER, Erik J. et al., "The U5 and U6 Small Nuclear RNAs as Active Site Components of the Spliceosome," Science, Vol. 262:1989-1997 (1993) (Exhibit Number 1058 filed in interferences 106008, 106007 on November 18, 2014)
29	Standard Operating Procedure FPLC Desalting, Pages 6, Exhibit Number 1144 filed in Interferences 106,007 and 106,008 on February 16, 2015.
30	Stanton, Robert et al., "Chemical Modification Study of Antisense Gapmers", Nucleic Acid Therapeutics, Vol. 22(5): 344-359 (2012)
31	Statement On A Nonproprietary Name Adopted By the USAN Council, ETEPLIRSEN, Chemical Structure, 2010, pages 1-5.
32	STEIN, CA, "Delivery of antisense oligonucleotides to cells: a consideration of some of the barriers," Monographic supplement series: Oligos & Peptides - Chimica Oggi - Chemistry Today, Vol. 32(2):4-7 (2014) (Exhibit Number 2022 filed in interferences 106008, 106013, 106007 on November 18, 2014)
33	STEIN, Cy A. et al., "Therapeutic Oligonucleotides: The Road Not Taken," Clin. Cancer Res., Vol. 17(20):6369-6372 (2011) (Exhibit Number 2026 filed in interferences 106008, 106013, 106007 on November 18, 2014)

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	Attorney Docket Number		AVN-008CN41	

STEIN, David et al., "A Specificity Comparison of Four Antisense Types: Morpholino, 2'-O-Methyl RNA, DNA, and PHosphorothioate DNA," Antisense & Nucleic Acid Drug Development, Vol. 7:151-157 (1997)
Strober JB, "Therapeutics in Duchenne muscular dystrophy," NeuroRX 2006; 3:225-34.
Summary of Professional Experience (Dr. Erik J. Sontheimer), Pages 4, Exhibit Number 1223 filed in Interferences 106,007 and 106,008 on February 17, 2015.
SUMMERTON, James et al., "Morpholino and Phosphorothioate Antisense Oligomers Compared in Cell-Free and In-Cell Systems," Antisense & Nucleic Acid Drug Development, Vol. 7:63-70 (1997)
SUMMERTON, James et al., "Morpholino Antisense Oligomers: Design, Preparation, and Properties," Antisense & Nucleic Acid Drug Development, Vol. 7:187-195 (1997)
SUMMERTON, James, "Morpholino antisense oligomers: the case for an Rnase H-independent structural type," Biochimica et Biophysica Acta, Vol. 1489:141-158 (1999) (Exhibit Number 1038 filed in interferences 106008, 106013, 106007 on November 18, 2014)
Supplementary European Search Report for Application No. 10829367.1, 8 pages, dated May 22, 2013
Suter et al., "Double-target antisense U7 snRNAs promote efficient skipping of an aberrant exon in three human Beta- thalassemic mutations," 8:13 HUMAN MOLECULAR GENETICS 2415-2423 (1999) (Exhibit Number 1083 filed in interferences 106008, 106007 on December 23, 2014)
T HOEN, Peter A.C. et al., "Generation and Characterization of Transgenic Mice with the Full-length Human DMD Gene," The Journal of Biological Chemistry, Vol. 283(9):5899-5907 (2008) Exhibit Number 2030 filed in interferences 106008, 106013, 106007 on November 18, 2014)
Table 1: Primer and Product Details for Exon 51 and 53 Reports on AONs of 20 to 50 Nucleotides dd 07 JAN 2015, Pages 1, Exhibit Number 1177 filed in Interferences 106,007 and 106,008 on February 16, 2015.
Takeshima et al., "Oligonucleotides against a splicing enhancer sequence led to dystrophin production in muscle cells from a Duchenne muscular dystrophy patient," Brain & Dev., Vol. 23, pp. 788-790 (2001), Exhibit Number 1196 filed in Interferences 106,007 and 106,008 on February 17, 2015.

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	Filing Date		2017-09-14	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	First Named Inventor	Steph	en Donald WILTON	
	Art Unit		1674	
	Examiner Name	Not Y	et Assigned	
	Attorney Docket Numb	er	AVN-008CN41	

	45	TAKESHIMA, Yasuhiro et al., "Modulation of In Vitro Splicing of the Upstream Intron by Modifying an Intra-Exon Sequence Which Is Deleted from the Dystrophin Gene in Dystrophin Kobe," J. Clin. Invest., Vol. 95:515-520 (1995)						
	46		TANAKA, Kenji et al., "Polypurine Sequences within a Downstream Exon Function as a Splicing Enhancer," Molecular and Cellular Biology, Vol. 14(2):1347-1354 (1994)					
	47		Pharms., Inc. v. Merck KgaA, No. 96-1307, 1998 WL 35272018 (S.D. Cal. Nov. 18 er 2153 filed in interference 106013 on October 29, 2015)	1998), 11 pages (Exhibit				
	48	THANH, Le Htiet et al., "Characterization of Revertant Muscle Fibers in Duchenne Muscular Dystrophy, Using Exon- Specific Monoclonal Antibodies against Dystrophin," Am. J. Hum. Genet., Vol. 56:725-731 (1995)						
	49	The Regents of the University of California v. Dako North America, Inc., U.S.D.C., N.D. California, No. C05-03955 MHP, April 22, 2009 (2009 WL 1083446 (N.D.Cal.), Exhibit Number 1206 filed in Interferences 106,007 and 106,008 on February 17, 2015.						
	50	TIAN, Xiaobing et al., "Imaging Oncogene Expression," Ann. N.Y. Acad. Sci., Vol. 1002:165-188 (2003) (Exhibit Number 2029 filed in interferences 106008, 106013, 106007 on November 18, 2014)						
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SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

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	Filing Date		2017-09-14
	First Named Inventor Stephen Donald WILTON		en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
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	Filing Date		2017-09-14
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
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1	Transcript of 2nd Deposition of Erik J. Sontheimer, Ph.D., dated March 12, 2015, (Academisch Ziekenhuis Leiden Exhibit 1231, filed April 3, 2015 in Interference 106007 and 106008, pages 1-185).	
2	Transcript of 2nd Deposition of Matthew J.A. Wood, M.D., D. Phil, dated March 5, 2015, (Academisch Ziekenhuis Leiden Exhibit 1230, filed April 3, 2015 in Interference 106007 and 106008, pages 1-117).	
3	Transcript of December 12, 2014 Teleconference with Administrative Patent Judge Schafer (rough draft) (previously filed in Int. No. 106,008 as Ex. 2114), Pages 28 Exhibit Number 1001 filed in Interference 106,013 on February 17, 2015.	
4	Transcript of the January 21, 2015 deposition of Erik Sontheimer, Ph.D., Patent Interference Nos. 106,007 and 106,008, 98 pages, dated January 21, 2015 (Exhibit Number 2122 filed in interferences 106,007 and 106,008 on February 17, 2015.	
5	Transcript of the March 11, 2015 deposition of Judith van Deutekom, Ph.D., (University of Western Australia Exhibit 2141, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-168).	
6	Transcript of the March 12, 2015 deposition of Erik J. Sontheimer, Ph.D., (University of Western Australia Exhibit 2142, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-183).	
7	Transcript of the March 5, 2015 deposition of Matthew J. A. Wood, M.D., D. PHIL., (University of Western Australia Exhibit 2146, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-115).	
8	Transfection of AON, Pages 1, Exhibit Number 1170 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
9	U.S. Food and Drug Administration Presentation at Peripheral and Central Nervous System Drugs Advisory Committee, April 25, 2016, 178 pages.	
10	U.S. Food and Drug Administration Statement, dated December 30, 2014 (2 pages), Exhibit Number 1204 filed in Interferences 106,007 and 106,008 on February 17, 2015.	
11	U.S. Patent Application No. 12/198,007, as-filed August 25, 2008 ("the '007 Application") (Exhibit Number 1073 filed in interferences 106008, 106007 on December 23, 2014)	

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	U.S. Patent Application No. 12/976,381, as-filed December 22, 2010 ("the '381 Application") (Exhibit Number 1074
12	filed in interferences 106008, 106007 on December 23, 2014)
13	U.S. Patent Application Publication No. 2001/0056077 ("Matsuo") (Exhibit Number 1080 filed in interferences 106008, 106007 on December 23, 2014)
14	U.S. Patent Application Publication No. 2002/0049173 ("Bennett et al.") (Exhibit Number 1081 filed in interferences 106008, 106007 on December 23, 2014)
15	U.S. Patent No. 5,190,931 ("the '931 Patent") (Exhibit Number 1069 filed in interferences 106008, 106007 on December 23, 2014)
16	U.S. Patent No. 7,001,761 (the "Xiao" Patent) (Exhibit Number 1070 filed in interferences 106008, 106007 on December 23, 2014)
17	University of Western Australia Objections to Opposition Evidence, served on February 24, 2015 filed in Interference No. 106,007, Exhibit 2150, filed April 10, 2015 in Interference Nos. 106007 and 106008, pages 1-15.
18	University of Western Australia Objections to Opposition Evidence, served on February 24, 2015, filed in Interference No. 106,008, Exhibit 2151, filed April 10, 2015, in Interference Nos. 106007and 106008, pages 1-15.
19	University of Western Australia v. Academisch Ziekenhuis Leiden, Decision - Motions - 37 C.F.R. § 41.125(a), filed in Patent Interference No. 106008, September 20, 2016, pages 1-20 (Doc 480)
20	University of Western Australia v. Academisch Ziekenhuis Leiden, Decision - Motions - 37 CFR § 41.125(a) (Substitute), filed in Patent Interference No. 106007, May 12, 2016, pages 1-53 (Doc 476)
21	University of Western Australia v. Academisch Ziekenhuis Leiden, Judgment - Motions - 37 C.F.R. § 41.127 filed in Patent Interference No. 106008, September 20, 2016, pages 1-3 (Doc 481)
22	University of Western Australia v. Academisch Ziekenhuis Leiden, Judgment - Motions - 37 CFR § 41.127, filed in Patent Interference No. 106007, April 29, 2016, pages 1-3 (Doc 474)

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23	European Response, Application No. 13160338.3, 4 pages, dated June 26, 2014 (Exhibit Number 2085 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
24	University of Western Australia v. Academisch Ziekenhuis Leiden, Redeclaration - 37 CFR 41.203(c), filed in Patent Interference No. 106007, April 29, 2016, pages 1-2 (Doc 473)	
25	University of Western Australia v. Academisch Ziekenhuis Leiden, Withdrawal and Reissue of Decision on Motions, filed in Patent Interference No. 106007, May 12, 2016, pages 1-2 (Doc 475)	
26	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden List of Exhibits (as of Apr. 3, 2015), filed in Patent Interference No. 106,007, April 3, 2015, pages 1-18, (Doc 423).	
27	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden List of Exhibits (as of Apr. 3, 2015), filed in Patent Interference No. 106,008, April 3, 2015, pages 1-18 (Doc 435).	
28	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden List of Exhibits, 18 pages, Patent Interference No. 106,007, (Doc 391), dated February 17, 2015.	
29	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden List of Exhibits, 18 pages, Patent Interference No. 106,008, (Doc 398), dated February 17, 2015.	
30	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden List of Exhibits, 3 pages, Patent Interference No. 106,013, (Doc 147), dated February 17, 2015.	
31	University of Westem Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Notice of Service of Supplemental Evidence, 3 pages, Patent Interference No. 106,007 (Doc 414), dated March 9, 2015.	
32	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Notice of Service of Supplemental Evidence, 3 pages, Patent Interference No. 106,008 (Doc 422), dated March 9, 2015.	
33	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 1 (35 U. S.C. § 112(a)), 83 pages, Patent Interference No. 106,008, (Doc 400), dated February 17, 2015	

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	First Named Inventor	Stephen Donald WILTON		
	Art Unit		1674	
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	Attorney Docket Numb	er	AVN-008CN41	

34	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 1 (35 U. S.C. § 112(a)), 93 pages, Patent Interference No. 106,007, (Doc 392), dated February 17, 2015
35	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 1 (Standing Order ¶ 203.1 and 37 C.F.R. § 41.202(a) and (e)), 20 pages, Patent Interference No. 106,013, (Doc 148), dated February 17, 2015
36	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 2 (Indefiniteness), 31 pages, Patent Interference No. 106,007, (Doc 396), dated February 17, 2015
37	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 2 (Indefiniteness), 32 pages, Patent Interference No. 106,008, (Doc 401), dated February 17, 2015
38	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 3 (35 U. S.C. §135(b)), 44 pages, Patent Interference No. 106,008, (Doc 397), dated February 17, 2015
39	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 3 (Standing Order § 203.1 and 37 C.F.R. § 41.202(a) and (e)), 20 pages, Patent Interference No. 106,007, (Doc 389), dated February 17, 2015.
40	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Reply 1 (For Judgment that UWA'a Claims are Unpatentable Under 35 U.S.C. §§ 102 and 103), dated April 3, 2015, filed in Patent Interference No. 106008, pages 1-17 (Doc 431).
41	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Reply 1 (For Judgment that UWA's Claims are Unpatentable Under 35 U.S.C. §§ 102 and 103), dated April 3, 2015, filed in Patent Interference No. 106007, pages 1-17 (Doc 424).
42	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Reply 2 (To Deny the Benefit of AU 2004903474), dated April 3, 2015, filed in Patent Interference No. 106007, pages 1-11(Doc 425).
43	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Reply 2 (To Deny the Benefit of AU 2004903474), dated April 3, 2015, filed in Patent Interference No. 106008, pages 1-12 (Doc 432).
44	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Reply 3 (For Judgment of Unpatentability based on Myriad) dated April 3, 2015, filed in Patent Interference No. 106007, pages 1-12 (Doc 426).

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45				cademisch Ziekenhuis Leiden Reply 3 (For led in Patent Interference No. 106008, pages 1-13	

	45	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Reply 3 (For Judgment of Unpatentability based on Myriad) dated April 3, 2015, filed in Patent Interference No. 106008, pages 1-13 (Doc 433).					
	46	of Res	rsity of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leic sponsive Motion 4 to Add Two New Claims) dated April 3, 2015, filed in Patent Interferenc Doc 427).				
	47	of Res	rsity of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leic sponsive Motion 4 to Add Two New Claims) dated April 3, 2015, filed in Patent Interferenc Doc 434).				
	48	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Request For Oral Argument, filed in Patent Interference No. 106,007, April 10, 2015, pages 1-3 (Doc 454).					
	49	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Request For Oral Argument, filed in Patent Interference No. 106,008, April 10, 2015, pages 1-3 (Doc 462).					
	50	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Responsive Motion 4 (To Add Two New Claims), 57 pages, Patent Interference No. 106,008, (Doc 245), dated December 23, 2014.					
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	Art Unit		1674
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SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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Doc code: IDS Doc description: Information Disclosure Statement (IDS) Filed PTO/SB/08a (03-15)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		15705172	
	Filing Date		2017-09-14	
	First Named Inventor Stephe		phen Donald WILTON	
	Art Unit		1674	
	Examiner Name	Not Ye	et Assigned	
	Attorney Docket Numb	er	AVN-008CN41	

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	Filing Date		2017-09-14	
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(Not for Submission under or or it 1.00)	Examiner Name	Not Y	et Assigned	
	Attorney Docket Numb	er	AVN-008CN41	

1		Valorization Memorandum published by the Dutch Federation of University Medical Centers in March 2009, (University of Western Australia Exhibit 2140, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-33).	
2		VAN DEUTEKOM et al., "Antisense-induced exon skipping restores dystrophin expression in DMD patient derived muscle cells," HUMAN MOLECULAR GENETICS Vol. 10, No. 15: 1547-1554 (2001) (Exhibit Number 1084 filed in interferences 106008, 106007 on December 23, 2014)	
3	3	van Deutekom et al., "Local Dystrophin Restoration with Antisense Oligonucleotide PRO051," N. Engl. J. Med., Vol. 357, No. 26, pp. 2677-2686 (December, 2007), Exhibit Number 1213 filed in Interferences 106,007 and 106,008 on February 17, 2015.	
4	ŀ	VAN DEUTEKOM, Judith C. T. et al., "Advances in Duchenne Muscular Dystrophy Gene Therapy," Nature Reviews Genetics, Vol. 4(10):774-783 (2003)	
5	5	Van Ommen 2002 PCT (WO 02/24906 AI), 43 pages,(Exhibit Number 1071 filed in interferences 106008, 106007 on December 23, 2014)	
6		van Putten M, et al., "The Effects of Low Levels of Dystrophin on Mouse Muscle Function and Pathology. PLoS ONE 2012;7:e31937, 13 pages	
7		Van Vliet, Laura et al., "Assessment of the Feasibility of Exon 45-55 Multiexon Skipping for Duchenne Muscular Dystrophy", BMC Medical Genetics, Vol.9(1):105 (2008)	
8		VERMA, Sandeep et al., "Modified Oligonucleotides: Synthesis and Strategy for Users," Annu. Rev. Biochem., Vol. 67:99-134 (1998) (Exhibit Number 1040 filed in interferences 106008, 106007 on November 18, 2014)	
9	9	Vikase Corp. v. Am. Nat'l. Can Co., No. 93-7651, 1996 WL 377054 (N.D. III. July 1, 1996), 3 pages (Exhibit Number 2152 filed in interference 106013 on October 29, 2015)	
1	10	VOIT, Thomas et al., "Safety and efficacy of drisapersen for the treatment of Duchenne muscular dystrophy (DEMAND I): an exploratory randomised, placebo-controlled phase 2 study," Lancet Neurol., Vol. 13:987-996 (2014) (Exhibit Number 2037 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
1		VOLLOCH, Vladimir et al., "Inhibition of Pre-mRNA Splicing by Antisense RNA in Vitro: Effect of RNA Containing Sequences Complementary to Exons," Biochemical and Biophysical Research Communications, Vol. 179 (3):1593-1599 (1991)	

Case 1:21-cv-01015-JLH Doc		1.10/1	10/22 Page 20 of 201 Page ID #
Case 1.21-CV-01015-JLH D0C	ument 435-1 Filed Application Number	1 12/-	18/23 Page 28 of 361 PageID #:
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	First Named Inventor Stephen Donald WILTON		en Donald WILTON
	Art Unit		1674
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	Attorney Docket Number	er	AVN-008CN41

12	Wahlestedt et al., "Potent and nontoxic antisense oligonucleotides containing locked nucleic acids," PNAS, Vol. 97, No. 10, pp. 5633-5638 (May, 2000), Exhibit Number 1201 filed in Interferences 106,007 and 106,008 on February 17, 2015.
13	Wang et al., "In Vitro evaluation of novel antisense oligonucleotides is predictive of in vivo exon skipping activity for Duchenne muscular dystrophy," J. Gene Medicine, Vol. 12, pp. 354-364 (March, 2010), Exhibit Number 1115 filed in interferences 106,007 and 106,008 on February 17, 2015.
14	WANG, Chen-Yen et al., "pH-sensitive immunoliposomes mediate target-cell-specific delivery and controlled expression of a foreign gene in mouse," Proc. Natl. Acad. Sci. USA, Vol. 84:7851-7855 (1987)
15	WATAKABE, Akiya et al., "The role of exon sequences in splice site selection," Genes & Development, Vol. 7:407-418 (1993)
16	Watanabe et al., "Plasma Protein Binding of an Antisense Oligonucleotide Targeting Human ICAM-1 (ISIS 2302)," Oligonucleotides, Vol. 16, pp. 169- 180 (2006), Exhibit Number 1197 filed in Interferences 106,007 and 106,008 on February 17, 2015.
17	WHO Drug Information, International Nonproprietary Names for Pharmaceutical Substances (INN), Proposed INN: List 115, "CASIMERSEN," vol. 30(2): 3 pages (2016)
18	WHO Drug Information, International Nonproprietary Names for Pharmaceutical Substances (INN), Proposed INN: List 115, "Golodirsen," vol. 30(2): 3 pages (2016)
19	WIJNAENDTS, L.C.D. et al., "Prognostic importance of DNA flow cytometric variables in rhabdomyosarcomas," J. Clin. Pathol., Vol. 46:948-952 (1993) (Exhibit Number 1041 filed in interferences 106008, 106007 on November 18, 2014)
20	Wilton et al. (2007) "Antisense Oligonucleotide-induced Exon Skipping Across the Human Dystrophin Gene Transcript," Molecular Therapy 15(7):1288-1296, 10 pages, (Exhibit Number 2121 filed in interferences 106,007 and 106,008 on February 17, 2015
21	WILTON, Stephen D. et al., "Antisense oligonucleotides in the treatment of Duchenne muscular dystrophy: where are we now?" Neuromuscular Disorders, Vol. 15:399-402 (2005)
22	WILTON, Stephen D. et al., "Specific removal of the nonsense mutation from the mdx dystrophin mRNA using antisense oligonucleotides," Neuromuscular Disorders, Vol. 9:330-338 (1999)

Case 1:21-cv-01015-JLH Doc	ument /35-1 Filer	1 1 2 / 1	18/23 Page 29 of 361 PageID #	
Case 1.21-cv-01013-3211 Doc	ument 435-1 Filed 12/1 Application Number		1 8/23 Page 29 of 361 PageID #:	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date		2017-09-14	
	First Named Inventor	Stephen Donald WILTON		
	Art Unit		1674	
	Examiner Name	Not Yet Assigned		
	Attornov Docket Numb	or.	AVN 008CN41	

23	WO 2002/24906 A1 of AZL, (University of Western Australia Exhibit 2134, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-43.)
24	WO 2004/083432 (the published AZL PCT Application, "Van Ommen"), Pages 71, Exhibit Number 1003 filed in Interference 106,013 on February 17, 2015.
25	WO 2013/112053 A1, (University of Western Australia Exhibit 2130, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-177).
26	WOLFF, Jon A. et al., "Direct Gene Transfer into Mouse Muscle in Vivo," Science, Vol. 247(4949 Pt. 1):1465-1468 (1990)
27	WONG, Marisa L. et al., "Real-time PCR for mRNA quantitation," BioTechniques, Vol. 39:75-85 (2005) (Exhibit Number 1066 filed in interferences 106008, 106007 on November 18, 2014)
28	Wood, "Toward an Oligonucleotide Therapy for Duchenne Muscular Dystrophy: A Complex Development Challenge," Science Translational Medicine, Vol. 2, No. 25, pp. 1-6 (March, 2010), Exhibit Number 1116 filed in interferences 106,007 and 106,008 on February 17, 2015,Doc 335.
29	Written Opinion for Application No. PCT/AU2010/001520, 6 pages, dated January 21, 2011
30	WU, B. et al., "Dose-dependent restoration of dystrophin expression in cardiac muscle of dystrophic mice by systemically delivered morpholino," Gene Therapy, Vol. 17:132-140 (2010)
31	WU, Bo et al., "Effective rescue of dystrophin improves cardiac function in dystrophin-deficient mice by a modified morpholino oligomer," PNAS, Vol. 105(39):14814-14819 (2008)
32	WU, Bo et al., "Targeted Skipping of Human Dystrophin Exons in Transgenic Mouse Model Systemically for Antisense Drug Development," PLoS One, vol. 6(5):e19906, 11 pages (2011)
33	WU, George Y. et al., "Receptor-mediated Gene Delivery and Expression in Vivo," The Journal of Biological Chemistry, Vol. 263(29):14621-14624 (1988)

Case 1:21-cv-01015-JLH Doc	umant 425 1 Eilac	1.2/1	19/22 Page 20 of 261 Page ID #	
Case 1.21-CV-01015-JEH DOC	ument 435-1 Filed Application կերթեց	1 12/-	18/23 Page 30 of 361 PageID #:	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date		2017-09-14	
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	Examiner Name	Not Y	Yet Assigned	
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34	WU, George Y. et al., "Receptor-mediated in Vitro Gene Transformation by a Soluble DNA Carrier System," The Journal of Biological Chemistry, Vol. 262(10):4429-4432 (1987)	
35	Wyatt et al. "Site-specific cross-linking of mammalian U5 snRNP to the 5′ splice site before the first step of pre-mRNA splicing," Genes & Development, Vol. 6, pp. 2542-2553 (1992), Exhibit Number 1198 filed in Interferences 106,007 and 106,008 on February 17, 2015.	
36	Yin et al., "A fusion peptide directs enhanced systemic dystrophin exon skipping and functional restoration in dystrophin-deficient mdx mice," Human Mol. Gen., Vol. 18, No. 22, pp. 4405-4414 (2009), Exhibit Number 1200 filed in Interferences 106,007 and 106,008 on February 17, 2015.	
37	Yin et al., "Cell Penetrating peptide-conjugated antisense cardiac dystrophin expression and function," Human Mol. Gen., Vol. 17, No. 24, pp. 3909-3918 (2008), Exhibit Number 1199 filed in Interferences 106,007 and 106,008 on February 17, 2015.	
38	Yin et al., "Functional Rescue of Dystrophin-deficient mdx Mice by a ChimericPeptide-PMO," Mol. Therapy, Vol. 18, No. 10, pp. 1822-1829 (October, 2010), Exhibit Number 1117 filed in interferences 106,007 and 106,008 on February 17, 2015.	
39	Yokota et al., "Efficacy of Systematic Morpholino Exon-Skipping in Duchenne Dystrophy Dogs," American Neurological Assoc., Vol. 65, No. 6, pp. 667-676 (June, 2009), Exhibit Number 1214 filed in Interferences 106,007 and 106,008 on February 17, 2015.	
40	Zoltek Corp. v. U.S., 95 Fed. Cl. 681 (2011), 23 pages, (Academisch Ziekenhuis Leiden Exhibit 1236, filed May 5, 2015 in Interference 106007 and 106008).	
41	European Search Report for Application No. 12162995.0, 11 pages, dated January 15, 2013	
42	HAREL-BELLAN, Annick et al., "Specific Inhibition of c-myc Protein Biosynthesis Using an Antisense Synthetic Deoxy- Oligonucleotide in Human T Lymphocytes," The Journal of Immunology, Vol. 140(7):2431-2435 (1988)	
43	HUDZIAK, Robert M. et al., "Resistance of Morpholino Phosphorodiamidate Oligomers to Enzymatic Degradation," Antisense & Nucleic Acid Drug Development, Vol. 6:267-272 (1996)	
44	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden's List of Exhibits as pf May 5, 2015, filed in Patent Interference No. 106,007, May 5, 2015, pages 1-18 (Doc 466).	

Case 1:21-cv-01015-JLH Doc	ument 435-1 Filed Application Number	12/3	1 8/23 Page 31 of 361 PageID #:	
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	45		ersity of Western Australia v. Academisch Ziekenhuis Leiden, Acad ay 5, 2015, filed in Patent Interference No. 106,008, May 5, 2015, p		den's List of Exhibits as			
	46	University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Exhibit List, 10 pages, Patent Interference No. 106,008, dated December 23, 2014 (Doc 244)						
	47	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Motion 3 Requesting an additional nterference between UWA U.S. Patent No. 8,455,636 and AZL USSN 14/248,279, 36 pages, Patent Interference No. 106,007, dated November 18, 2014 (Doc 212)						
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Case 1.21-CV-01015-JLH D0C	Application Number		18/23 Page 32 of 361 PageID #:	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date		2017-09-14	
	First Named Inventor Steph		hen Donald WILTON	
	Art Unit		1674	
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CERTIFIC	۵	TION	STA	TEMENT
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statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

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	U.S.PATENTS				Remove	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	4458066		1984-07-03	Caruthers et al.	
	2	5034506		1991-07-23	Summerton et al.	
	3	5138045		1992-08-11	Cook et al.	
	4	5142047		1992-08-25	Summerton et al.	
	5	5149797		1992-09-22	Pederson et al.	
	6	5166315		1992-11-24	Summerton et al.	
	7	5185444		1993-02-09	Summerton et al.	
	8	5190931		1993-03-02	Inouye	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date		2017-09-14	
	First Named Inventor Stephen Donald WILTON		en Donald WILTON	
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9	5217866	1993-06-08	Summerton et al.	
10	5506337	1996-04-09	Summerton et al.	
11	5521063	1996-05-28	Summerton et al.	
12	5627274	1997-05-06	Kole et al.	
13	5665593	1997-09-09	Kole et al.	
14	5698685	1997-12-16	Summerton et al.	
15	5801154	1998-09-01	Baracchini et al.	
16	5869252	1999-02-09	Bouma et al.	
17	5892023	1999-04-06	Pirotzky et al.	
18	5916808	1999-06-29	Kole et al.	
19	5976879	1999-11-02	Kole et al.	

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INFORMATION DISCLOSURE	First Named Inventor	Steph	phen Donald WILTON	
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	Attorney Docket Number		AVN-008CN41	

20	6153436	2000-11-28	Hermonat et al.	
21	6210892	2001-04-03	Bennett et al.	
22	6312900	2001-11-06	Dean et al.	
23	6391636	2002-05-21	Monia	
24	6451991	2002-09-17	Martin et al.	
25	6653466	2003-11-25	Matsuo	
26	6653467	2003-11-25	Matsuo et al.	
27	6656732	2003-12-02	Bennett et al.	
28	6727355	2004-04-27	Matsuo et al.	
29	6784291	2004-08-31	lversen et al.	
30	6806084	2004-10-19	Debs et al.	

Coop 1,21 ov 0101E 11 II Doo	umant 10F 1 Files	110/	10/22 Dogg 27 of 261 Dogg D #	
Case 1:21-cv-01015-JLH Doc	Application Number	1 12/.	18/23 Page 37 of 361 PageID #:	_
INFORMATION DIOOL COURT	Filing Date		2017-09-14	_
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	_
(Not let submission under et et it 1.50)	Examiner Name	Not Y	et Assigned	_
	Attorney Docket Numb	er	AVN-008CN41	

31	7001761	2006-02-21	Xiao	
32	7070807	2006-07-04	Mixson	
33	7163695	2007-01-16	Mixson	
34	7250289	2007-07-31	Zhou	
35	7314750	2008-01-01	Zhou	
36	7468418	2008-12-23	Iversen et al.	
37	7534879	2009-05-19	van Deutekom	
38	7655785	2010-02-02	Bentwich	
39	7655788	2010-02-02	Khvorova et al.	
40	7807816	2010-10-05	Wilton et al.	
41	7902160	2011-03-08	Matsuo et al.	

Coco 1,21 ov 0101F JLL Doc	woodt 10F 1 Files	110/	10/22 Dega 20 of 201 Degal D.#.
Case 1:21-cv-01015-JLH Doc	Application Number	1 12/.	18/23 Page 38 of 361 PageID #:
WEADALTIAN DIAGLACURE	Filing Date		2017-09-14
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(Not let submission under et et it 1.50)	Examiner Name	Not Y	et Assigned
	Attornov Docket Numb	or	AV/N 008CN/41

42	7960541	2011-06-14	Wilton et al.
43	7973015	2011-07-05	van Ommen et al.
44	8084601	2011-12-27	Popplewell et al.
45	8232384	2012-07-31	Wilton et al.
46	8324371	2012-12-04	Popplewell et al.
47	8361979	2013-01-29	Aartsma-Rus et al.
48	8436163	2013-05-07	lversen et al.
49	8450474	2013-05-28	Wilton et al.
50	8455634	2013-06-04	Wilton et al.
51	8455635	2013-06-04	Wilton et al.
52	8455636	2013-06-04	Wilton et al.

Coop 1,21 ov 0101E 11 II Doo	umant 10F 1 Files	110/	10/22 Page 20 of 201 Page D #
Case 1:21-cv-01015-JLH Doc	ument 435-1 Filed Application Number	1 12/.	18/23 Page 39 of 361 PageID #:
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(Not let submission under et et it 1.50)	Examiner Name	Not Y	et Assigned
	Attorney Docket Numb	er	AVN-008CN41

53	8461325	2013-06-11	Popplewell et al.
54	8476423	2013-07-02	Wilton et al.
55	8486907	2013-07-16	Wilton et al.
56	8501703	2013-08-06	Bennett et al.
57	8501704	2013-08-06	Mourich et al.
58	8524676	2013-09-03	Stein et al.
59	8524880	2013-09-03	Wilton et al.
60	8536147	2013-09-17	Weller et al.
61	8552172	2013-10-08	Popplewell et al.
62	8592386	2013-11-26	Mourich et al.
63	8618270	2013-12-31	lversen et al.

Coop 1,21 ov 01015 1111 Doo	umant 40E 1 Eilac	110/	10/22 Dogg 40 of 201 Dogg ID #	
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(Not let businessen ander et et it 1.50)	Examiner Name	Not Y	et Assigned	
	Attorney Docket Numb	or	AVN-008CN41	

64	8624019	2014-01-07	Matsuo et al.	
65	8637483	2014-01-28	Wilton et al.	
66	8697858	2014-04-15	lversen	
67	8741863	2014-06-03	Moulton et al.	
68	8759307	2014-06-24	Stein et al.	
69	8759507	2014-06-24	Van Deutekom	
70	8779128	2014-07-15	Hanson et al.	
71	8785407	2014-07-22	Stein et al.	
72	8785410	2014-07-22	Iversen et al.	
73	8835402	2014-09-16	Kole et al.	
74	8865883	2014-10-21	Sazani et al.	

Coop 1,21 ov 0101E 11 II Doo	umant 10F 1 Files	110/	10/22 Page 41 of 201 Page D #
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(Not let submission under et et it 1.50)	Examiner Name	Not Y	et Assigned
	Attorney Docket Numb	er	AVN-008CN41

7	75	8871918	2014-10-28	Sazani et al.	
7	6	8877725	2014-11-04	lversen et al.	
7	7	8895722	2014-11-25	lversen et al.	
7	8	8906872	2014-12-09	lversen et al.	
7	9	9018368	2015-04-28	Wilton et al.	
8	0	9024007	2015-05-05	Wilton et al.	
8	1	9035040	2015-05-19	Wilton et al.	
8	2	9175286	2015-11-03	Wilton et al.	
8	3	9217148	2015-12-22	Bestwick et al.	
8	14	9234198	2016-01-12	Sazani et al.	
8	15	9249416	2016-02-02	Wilton et al.	

Case 1:21-cv-01015-JLH Doc	umant 42E 1 Eilae	112/	19/22 Dago 42 of 261 DagoID #	
Case 1.21-CV-01013-3EH D0C	Application Number	1 12/-	1 8/23 Page 42 of 361 PageID #: 15705172	
WEADALTIAN BIAGI GOUDE	Filing Date		2017-09-14	
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(Not let submission under et et it 1.50)	Examiner Name	Not Y	et Assigned	
	Attorney Docket Numb	er	AVN-008CN41	

86	9416361	2016-08-16	lversen et al.	
87	9422555	2016-08-23	Wilton et al.	
88	9434948	2016-09-06	Sazani et al.	
89	9441229	2016-09-13	Wilton et al.	
90	9447415	2016-09-20	Wilton et al.	
91	9447416	2016-09-20	Sazani et al.	
92	9447417	2016-09-20	Sazani et al.	
93	9453225	2016-09-27	Sazani et al.	
94	9506058	2016-11-29	Kaye	
95	9605262	2017-03-28	Wilton et al.	
96	9228187	2016-01-05	Wilton et al.	

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INFORMATION BLOOK COURT	Filing Date		2017-09-14	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	First Named Inventor	Steph	en Donald WILTON	
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	Examiner Name	Not Ye	et Assigned	
	Attorney Docket Numb	er	AVN-008CN41	

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document Pages,Columns,Lines Relevant Passages of Figures Appear				
	1	20010056077		2001-12-27	Matsuo				
	2	20020055481	A1	2002-05-09	Matsuo et al.				
	3	20020049173	A1	2002-04-25	Bennett et al.				
	4	20020110819	A1	2002-08-15	Weller et al.				
	5	20020156235	A1	2002-10-24	Manoharan et al.				
	6	20030166588	A1	2003-09-04	lversen et al.				
	7	20030224353	A1	2003-12-04	Stein et al.				
	8	20030235845	A1	2003-12-25	van Ommen et al.				
	9	20040266720	A1	2004-12-30	lversen et al.				

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Case 1.21-cv-01015-JLH D0C	Application Number	J 12/.	18/23 Page 44 of 361 PageID #:	
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	_
(Not lot Submission and of or other 1.00)	Examiner Name	Not Y	et Assigned	_
	Attorney Docket Numb	or	AVN-008CN41	

10	20040248833	A1	2004-12-09	Emanuele et al.	
11	20040254137	A1	2004-12-16	Ackermann et al.	
12	20050026164	A1	2005-02-03	Zhou	
13	20050048495	A1	2005-03-03	Baker et al.	
14	20050153935	A1	2005-07-14	lversen et al.	
15	20060148740	A1	2006-07-06	Platenburg	
16	20060099616	A1	2006-05-11	van Ommen et al.	
17	20060147952	A1	2006-07-06	van Ommen et al.	
18	20060287268	A1	2006-12-21	Iversen et al.	
19	20070037165	A1	2007-02-15	Venter et al.	
20	20070082861	A1	2007-04-12	Matsuo et al.	

Coop 1,21 ov 01015 JLL Doo	wasant 40F 1 Files	110/	10/22 Page 45 of 261 Page ID #4
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	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(Not for Submission under or of K 1.50)	Examiner Name	Not Yet Assigned	
	Attorney Docket Numb	er	AVN-008CN41

2	21	20070265215	A1	2007-11-15	lversen et al.	
2	22	20080194463	A1	2008-08-14	Weller et al.	
2	23	20080200409	A1	2008-08-21	Wilson et al.	
2	24	20080209581	A1	2008-08-28	van Ommen et al.	
2	25	20090076246	A1	2009-03-19	van Deutekom	
2	26	20090082547	A1	2009-03-26	lversen et al.	
2	27	20090088562	A1	2009-04-02	Weller et al.	
2	28	20090099066	A1	2009-04-16	Moulton et al.	
2	29	20090228998	A1	2009-09-10	van Ommen et al.	
3	30	20090269755	A1	2009-10-29	Aartsma-Rus et al.	
3	31	20090312532	A1	2009-12-17	Van Deutekom et al.	

Case 1:21-cv-01015-JLH Doc	umant 12E 1 Eilac	1.2/1	10/22 Dago 46 of 261 DagoID #-	
Case 1.21-cv-01015-JEH DOC	Application Number	1 12/.	18/23 Page 46 of 361 PageID #:	
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(Not lot Submission under or or it 1.50)	Examiner Name	Not Ye	et Assigned	
	Attorney Docket Numb	er	AVN-008CN41	

32	20100016215	A1	2010-01-21	Moulton et al.	
33	20100130591	A1	2010-05-27	Sazani et al.	
34	20100168212	A1	2010-07-01	POPPLEWELL et al.	
35	20110015253	A1	2011-01-20	Wilton et al.	
36	20110015258	A1	2011-01-20	Wilton et al.	
37	20110046360	A1	2011-02-24	MATSUO et al.	
38	20110110960	A1	2011-05-12	PLATENBURG	
39	20110263682	A1	2011-10-27	De Kimpe et al.	
40	20110263686	A1	2011-10-27	WILTON et al.	
41	20110281787	A1	2011-11-17	Lu et al.	
42	20110294753	A1	2011-12-01	De Kimpe et al.	

Case 1:21-cv-01015-JLH Doc		110/	10/22 Dogg 47 of 261 Dogg D #	
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INFORMATION DISCLOSURE	Filing Date		2017-09-14	
	First Named Inventor	Steph	en Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(Not for Submission under or or it 1.55)	Examiner Name	Not Y	et Assigned	
	Attorney Docket Number	er	AVN-008CN41	

43	20110312086	A1	2011-12-22	Van Deutekom	
44	20120053228	A1	2012-03-01	lversen et al.	
45	20120065244	A1	2012-03-15	Popplewell et al.	
46	20120289457	A1	2012-11-15	Hanson	
47	20120022134	A1	2012-01-26	DE KIMPE et al.	
48	20120022144	A1	2012-01-26	Wilton et al.	
49	20120022145	A1	2012-01-26	Wilton et al.	
50	20120029057	A1	2012-02-02	Wilton et al.	
51	20120029058	A1	2012-02-02	Wilton et al.	
52	20120029059	A1	2012-02-02	Wilton et al.	
53	20120029060	A1	2012-02-02	Wilton et al.	

Coop 1,21 ov 01015 JLL Doo		1 1 2 /	10/22 Dece 40 of 201 DecelD #	
Case 1:21-cv-01015-JLH Doc	Application Number		1 8/23 Page 48 of 361 PageID #: 15705172	
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(Not lot Submission under or or it 1.00)	Examiner Name	Not Y	et Assigned	
	Attornov Docket Numb	or	AV/N 008CN/41	

54	-	20120041050	A1	2012-02-16	Wilton et al.	
55	,	20120046342	A1	2012-02-23	Van Deutekom et al.	
56	;	20120059042	A1	2012-03-08	Platenburg et al.	
57	,	20120065169	A1	2012-03-15	Hanson et al.	
58	,	20120108652	A1	2012-05-03	POPPLEWELL et al.	
59)	20120108653	A1	2012-05-03	POPPLEWELL et al.	
60)	20120115150	A1	2012-05-10	Bozzoni et al.	
61		20120122801	A1	2012-05-17	PLATENBURG	
62	<u>,</u>	20120149756	A1	2012-06-14	Schumperli et al.	
63	}	20120172415	A1	2012-07-05	Voit et al.	
64		20120202752	A1	2012-08-09	Lu	

Coop 1,21 ov 01015 JLL Doo		1 1 2 /	10/22 Dogg 40 of 201 Dogg D #	
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(Not lot Submission under or or it 1.00)	Examiner Name	Not Yet Assigned		
	Attornov Docket Numb	or	AVAL008CN/41	

65	20130116310	A1	2013-05-09	Wilton et al.	
66	20130190390	A1	2013-07-25	SAZANI et al.	
67	20130217755	A1	2013-08-22	WILTON et al.	
68	20130253033	A1	2013-0 9 -26	WILTON et al.	
69	20130253180	A1	2013-0 9 -26	WILTON et al.	
70	20130274313	A1	2013-10-17	WILTON et al.	
71	20130331438	A1	2013-12-12	WILTON et al.	
72	20130072671	A1	2013-03-21	Van Deutekom	
73	20130090465	A1	2013-04-11	MATSUO et al.	
74	20130197220	A1	2013-08-01	Ueda	
75	20130211062	A1	2013-08-15	Watanabe et al.	

Coco 1,21 ov 0101F JLL Doc	woodt 10F 1 Files	1 1 2 /	10/22 Dega F0 of 261 Degal D.#.	
Case 1:21-cv-01015-JLH Doc	ument 435-1 Filed Application կերթե	ı 12/.	18/23 Page 50 of 361 PageID #:	
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(Not let submission under et et it 1.50)	Examiner Name	Not Y	et Assigned	
	Attornov Docket Numb	or	AV/NI 008CN/41	

76	20130289096	A1	2013-10-31	POPPLEWELL et al.
77	20130302806	A1	2013-11-14	Van Deutekom
78	20140080896	A1	2014-03-20	Nelson et al.
79	20140080898	A1	2014-03-20	Wilton et al.
80	20140094500	A1	2014-04-03	SAZANI et al.
81	20140155587	A1	2014-06-05	WILTON et al.
82	20140243515	A1	2014-08-28	WILTON et al.
83	20140243516	A1	2014-08-28	WILTON et al.
84	20140296323		2014-10-02	Leumann et al.
85	20140315862	A1	2014-10-23	Kaye
86	20140315977	A1	2014-10-23	BESTWICK et al.

Coco 1,21 ov 01015 JLL Doc	umant 42E 1 Eilac	110/	10/22 Dogo F1 of 261 Dogo D #	
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(Not let submission under et et it 1.00)	Examiner Name Not Y		ot Yet Assigned	
	Attorney Docket Number	er	AVN-008CN41	

87	20140316123		2014-10-23	Matsuo et al.	
88	20140323544	A1	2014-10-30	BESTWICK et al.	
89	20140329762	A1	2014-11-06	KAYE	
90	20140329881	A1	2014-11-06	Bestwick et al.	
91	20140343266	A1	2014-11-20	Watanabe et al.	
92	20140350067	A1	2014-11-27	Wilton et al.	
93	20140350076		2014-11-27	van Deutekom	
94	20140357698		2014-12-04	Van DEUTEKOM et al.	
95	20140357855	A1	2014-12-04	Van DEUTEKOM et al.	
96	20140057964	A1	2014-02-27	POPPLEWELL et al.	
97	20140113955	A1	2014-04-24	De Kimpe et al.	

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Case 1.21-cv-01015-JLH D0C	ument 435-1 Filed Application Number	1 12/-	18/23 Page 52 of 361 PageID #: 15705172	
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(Not for submission under 37 CFR 1.99)	Examiner Name Not Y		ot Yet Assigned	
	Attorney Docket Number		AVN-008CN41	

98	20140128592	A1	2014-05-08	De Kimpe et al.
99	20140213635	A1	2014-07-31	Van DEUTEKOM
100	20140221458	A1	2014-08-07	De Kimpe et al.
101	20140275212	A1	2014-09-18	van Deutekom
102	20150232839	A1	2015-08-20	Iversen et al.
103	20150376615	A1	2015-12-31	Wilton et al.
104	20150376616	A1	2015-12-31	Wilton et al.
105	20150376617	A1	2015-12-31	SAZANI et al.
106	20150376618	A1	2015-12-31	Sazani et al.
107	20150152415	A1	2015-06-04	SAZANI et al.
108	20150353931	A1	2015-12-10	Wilton et al.

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Case 1.21-cv-01015-JLH D0C	ument 435-1 Filed Application Number	1 12/-	18/23 Page 53 of 361 PageID #: 15705172	
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
,	Examiner Name Not Y		ot Yet Assigned	
	Attorney Docket Number		AVN-008CN41	

109	20150361428	A1	2015-12-17	Bestwick et al.	
110	20150045413	A1	2015-02-12	De Visser et al.	
111	20150057330	A1	2015-02-26	Wilton et al.	
112	20160002631	A1	2016-01-07	Wilton et al.	
113	20160002632	A1	2016-01-07	Wilton et al.	
114	20160002633	A1	2016-01-07	Sazani et al.	
115	20160002634	A1	2016-01-07	Sazani et al.	
116	20160002635	A1	2016-01-07	Wilton et al.	
117	20160002637	A1	2016-01-07	Sazani et al.	
118	20160040162	A1	2016-02-11	BESTWICK et al.	
119	20160177301	A1	2016-06-23	Wilton et al.	

	-360	1:21-cv-01015-JL+		cumen	+ /125_	1—Files	l 1-9	1/18/23 Pane	5/ c	if 361 Par	aelD #·····	
	ouse .	1.21 00 01013 321	. 50			umber "		1/18/23 Page				
INFOR	ΤΔΜ	ION DISCLOSU	IRE	Filing				2017-09-14				
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		ssion under 37 CFR		Art Ur		т		1674				
		Exam	iner Na	me	Not	Yet Assigned						
				Attorn	ey Doc	ket Numbe	er	AVN-008CN41				
	120	20160298111	A1	2016-10)-13	Bestwick e	t al.					
	121	20170009233	A1	2017-01	-12	WILTON et al.						
	122	20140045916	A1	2014-02	<u>2</u> -13	lversen et al.						
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	1	2003284638	AU		A1	2004-06-18	8	KOBE UNIVERSIT	Ý			
	2	780517	AU		B2	2005-03-24	4	JCR Pharmaceutica Co., Ltd.	als			
	3	2507125	CA	***************************************	A1	2004-06-10	D	Masafumi Matsuo	000000000000000000000000000000000000000			
	4	1054058	EP	***************************************	A1	2000-11-22	2	JCR Pharmaceutica Co., Ltd.	als			
	5	1160318	EP		A2	2001-12-0	5	JCR Pharmaceutica Co., Ltd	als			
	6	1160318	EP	***************************************	B1	2008-05-2	В	Jor Pharmaceuticals	s Co.,			

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AVN-008CN41

Attorney Docket Number

7	1191097	EP	A1	2002-03-27	LEIDS UNIVERSITAIR MEDISCH CENTRUM
8	1191098	EP	A2	2002-03-27	JCR PHARMACEUTICALS CO., LTD.
9	11910 9 8	EP	B9	2006-06-28	Jcr Pharmaceuticals Co., Ltd
10	1495769	EP	A1	2005-01-12	LBR MEDBIOTECH B.V.
11	1495769	EP	B1	2008-02-27	Lbr Medbiotech B V
12	1544297	EP	A2	2005-06-22	Jcr Pharmaceuticals Co., Ltd
13	1544297	EP	B1	2009-09-16	Jcr Pharmaceuticals Co., Ltd
14	1568769	EP	A1	2005-08-31	MATSUO, MASAFUMI ET AL.
15	1606407	EP	B1		ACADEMISCH ZIEKENHUIS LEIDEN
16	1619249	EP	B1	2008-09-24	Academisch Ziekenhuis Leiden
17	1619249	EP	A1	2006-01-25	ACADEMISCH ZIEKENHUIS LEIDEN

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AVN-008CN41

Attorney Docket Number

STATEMENT BY APPLICANT

1	18	1766010	EP	B1	2007-03-28	Univ Western Australia
1	19	1857548	EP	A1	2007-11-21	Academisch Ziekenhuis Leiden
2	20	2119783	EP	A1	2009-11-18	PROSENSA TECHNOLOGIES B.V.
2	21	2135948	EΡ	B1	2014-09-17	Matsuo, Masafumi
2	22	2135948	<u>E</u> P	A2	2009-12-23	Matsuo, Masafumi
2	23	2206781	EP	A2	2010-07-14	The University of Western Australia
2	24	2258863	EP	A1	2010-12-08	UNIVERSITA 'DEGLI STUDI DI ROMA "LA SAPIENZA"
2	25	2284264	EP	A1	2011-02-16	Academisch Ziekenhuis Leiden
2	26	2374885	EP	A2	2011-10-12	Matsuo, Masafumi et al.
2	27	2386636	EP	A2	2011-11-16	Matsuo, Masafumi et al.
2	28	2392660	EP	A2	2011-12-07	Matsuo, Masafumi et al.

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29	2435582	EP	B1	2013-10-23	UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA	
30	2435583	EP	B1	2014-07-09	UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA	
31	2488165	EP	B1	2014-07-23	Universita Degli Studi di Ferrara	
32	2500430	EP	A2	2012-09-19	Univ Western Australia	
33	2530153	EP	A1	2012-12-05	Matsuo, Masafumi et al.	
34	2530154	EP	A1	2012-12-05	Matsuo, Masafumi et al.	
35	2530155	EP	A1	2012-12-05	MATSUO, MASAFUMI ET AL.	
36	2530156	EP	A1	2012-12-05	MATSUO, MASAFUMI ET AL.	
37	2581448	EP	A1	2013-04-17	ASSOCIATION INSTITUT DE MYOLOGIE ET AL.	
38	2594640	EP	A1	2013-05-22	ACADEMISCH ZIEKENHUIS LEIDEN	
39	2594641	EP	A1		ACADEMISCH ZIEKENHUIS LEIDEN	

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40	2594642	EP	A1	2013-05-22	ACADEMISCH ZIEKENHUIS LEIDEN
41	2602322	EP	A1	2013-06-12	ACADEMISCH ZIEKENHUIS LEIDEN
42	2607484	EP	A1	2013-06-26	Prosensa Technologies B.V. et al.
43	2612917	EP	A1	2013-07-10	NIPPON SHINYAKU CO., LTD.
44	2614827	EP	A2	2013-07-17	ACADEMISCH ZIEKENHUIS LEIDEN
45	2623507	EP	A1	2013-08-07	NIPPON SHINYAKU CO., LTD.
46	2636740	EP	A1	2013-09-11	Academisch Ziekenhuis Leiden
47	2636741	EP	A1	2013-09-11	ACADEMISCH ZIEKENHUIS LEIDEN
48	2636742	EP	A1	2013-09-11	ACADEMISCH ZIEKENHUIS LEIDEN
49	2799548	EP	A1	2014-11-05	NIPPON SHINYAKU CO., LTD
50	2801618	EP	A1	2014-11-12	Academisch Ziekenhuis Leiden

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Case 1:21-cv-01015-JLH Doc	Application Number	1 12/1	18/23 Page 59 of 361 PageID #:
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INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
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	1	'Efficacy Study of AVI-4658 to Induce Dystrophin Expression in Selected Duchenne Muscular Dystrophy Patients" ClinicalTrials.gov dated January 22, 2013	
	2	'Efficacy Study of AVI-4658 to Induce Dystrophin Expression in Selected Duchenne Muscular Dystrophy Patients," Clinical Trial Identifier No. NCT01396239, ClinicalTrials.gov, dated July, 15, 2011, page 1-4.	
	3	'Efficacy, Safety, and Tolerability Rollover Study of Eteplirsen in Subjects with Duchenne Muscular Dystrophy," Clinical Trial Identifier No. NCT01540409, ClinicalTrials.gov, published online February 23, 2012, page 1-4.	
	4	'Eteplirsen - Inhibitor of Dystrophin Expression - Treatment of Duchenne Muscular Dystrophy", Drugs of the Future, Vol.38(1):13-17 (2013)	
	5	'Open-Label, Multiple-Dose, Efficacy, Safety, and Tolerability Study of Eteplirsen in Subjects With Duchenne Muscular Dystrophy Who Participated in Study 4658-US- 201," ClinicalTrials.gov dated July 31, 2012, 3 pages	
	6	'Open-Label, Multiple-Dose, Efficacy, Safety, and Tolerability Study of Eteplirsen in Subjects With Duchenne Muscular Dystrophy Who Participated in Study 4658-US- 201," ClinicalTrials.gov dated October 17, 2013, 3 pages	
	7	'Open-Label, Multiple-Dose, Efficacy, Safety, and Tolerability Study of Eteplirsen in Subjects With Duchenne Muscular Dystrophy Who Participated in Study 4658-US- 201," ClinicalTrials.gov dated February 27, 2012, 3 pages	
	8	2nd Expert Declaration of Dr. Erik Sontheimer ("2nd S Decl.") (Exhibit Number 1067 filed in interferences 106008, 106007 on December 23, 2014)	
	9	3rd Declaration of Erik J. Sontheimer, Ph.D. ("3rd S. Decl."), Pages 123, Exhibit Number 1186 filed in Interferences 106,007 and 106,008 on February 17, 2015.	

Case 1:21-cv-01015-JLH Doc	wasant 40F 1 Files	1.10/1	LO/OO Dogo CO of OCA Dogo ID #
Case 1.21-CV-01015-JEH D00	Application Number	1 12/-	18/23 Page 60 of 361 PageID #:
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
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10	A Comparative Study on AONs between 20 and 50 Nucleotides Designed to Induce the Skipping of Exon 53 from the Dystrophin Pre-mRNA, Pages 6, Exhibit Number 1128 filed in Interferences 106,007 and 106,008 on February 17, 2015.
11	A Comparative Study on AONs Between 20 and 50 Nucleotides Designed to Induce the Skipping of Exon 51 from the Dystrophin Pre-mRNA, Pages 6, Exhibit Number 1127 filed in Interferences 106,007 and 106,008 on February 17, 2015.
12	Aartsma-Rus A, et al. "Theoretic applicability of antisense-mediated exon skipping for Duchenne muscular dystrophy mutations," Hum Mutat 2009;30:293-99.
13	Aartsma-Rus et al., "Antisense-induced exon skipping for duplications in Duchenne muscular dystrophy," BMC Medical Genetics 8:43 (2007), (University of Western Australia Exhibit 2135, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-9.)
14	AARTSMA-RUS, Annemieke et al., "194th ENMC international workshop. 3rd ENMC workshop on exon skipping: Towards clinical application of antisense-mediated exon skipping for Duchenne muscular dystrophy 8-10 December 2012, Naarden, The Netherlands," Neuromuscular Disorders, Vol. 23:934-944 (2013)
15	AARTSMA-RUS, Annemieke et al., "Antisense-Induced Multiexon Skipping for Duchenne Muscular Dystrophy Makes More Sense," Am. J. Hum. Genet., Vol. 74:83-92 (2004)
16	AARTSMA-RUS, Annemieke et al., "Functional Analysis of 114 Exon-Internal AONs for Targeted DMD Exon Skipping: Indication for Steric Hindrance of SR Protein Binding Sites," Oligonucleotides, Vol. 15:284-297 (2005) (Exhibit Number 2016 filed in interferences 106008, 106013, 106007 on November 18, 2014)
17	AARTSMA-RUS, Annemieke et al., "Guidelines for Antisense Oligonucleotide Design and Insight Into Splice-modulating Mechanisms," Molecular Therapy, Vol. 17(3):548-553 (2009) (Exhibit Number 2014 filed in interferences 106008, 106013, 106007 on November 18, 2014)
18	AARTSMA-RUS, Annemieke et al., "Guidelines for Antisense Oligonucleotide Design and Insight Into Splice-modulating Mechanisms," Molecular Therapy, Vol. 17(3):548-553 (2009). Supplementary Table 1.
19	AARTSMA-RUS, Annemieke et al., "Targeted exon skipping as a potential gene correction therapy for Duchenne muscular dystrophy," Neuromuscular Disorders, Vol. 12:S71-S77 (2002)
20	AARTSMA-RUS, Annemieke et al., "Therapeutic antisense-induced exon skipping in cultured muscle cells from six different DMD patients," Human Molecular Genetics, Vol. 12(8):907-914 (2003)
	1

Case 1:21-cv-01015-JLH Doc	wasant 40F 1 Files	1.10/1	LO/OO Dogo C1 of OC1 Dogo D #
Case 1.21-CV-01015-JLH D0	Application Number	1 12/-	18/23 Page 61 of 361 PageID #:
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INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
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	Attorney Docket Number		AVN-008CN41

21	ABBS, Stephen et al., "A convenient multiplex PCR system for the detection of dystrophin gene deletions: a comparative analysis with cDNA hybridisation shows mistypings by both methods," J. Med. Genet., Vol. 28:304-311 (1991)
22	Abes, S. et al., "Efficient Splicing Correction by PNA Conjugation to an R6-Penetratin Delivery Peptide", Nucleic Acids Research Vol.35(13):4495-4502 (2007)
23	AGRAWAL, Sudhir et al., "GEM 91 - An Antisense Oligonucleotide Phosphorothioate as a Therapeutic Agent for AIDS," Antisense Research and Development, Vol. 2:261-266 (1992)
24	AGRAWAL, Sudhir et al., "Oligodeoxynucleoside phosphoramidates and phosphorothioates as inhibitors of human immunodeficiency virus," Proc. Natl. Acad. Sci. USA, Vol. 85:7079-7083 (1988)
25	Ahmad A, et al., "Mdx mice inducibly expressing dystrophin provide insights into the potential of gene therapy for Duchenne muscular dystrophy," Hum Mol Genet 2000;9:2507-2515.
26	AKHTAR, Saghir et al., "Cellular uptake and intracellular fate of antisense oligonucleotides," Trends in Cell Biology, Vol. 2:139-144 (1992)
27	AKHTAR, Saghir, "Delivery Strategies for Antisense Oligonucleotide Therapeutics," CRC Press, Inc., Boca Raton, FL, 160 pages (1995)
28	Alignments of Dystrophin mRNA and Oligonucleotides, 6 pages, submitted to the Patent Trial and Appeal Board in interference No. 106008, dated November 18, 2014 (Exhibit Number 1054 filed in interferences 106008, 106007 on November 18, 2014)
29	ALTER, Julia et al., "Systemic delivery of morpholino oligonucleotide restores dystrophin expression bodywide and improves dystrophic pathology," Nature Medicine, Vol. 12(2):175-177 (2006)
30	Amendment under 37 CFR 1.312 for Application No. 14/248,279, 5 pages, dated September 19, 2014 (Exhibit Number 2053 filed in interferences 106008, 106013, 106007 on November 18, 2014)
31	Analysis of Second PCR Product by Gel Electrophoresis, Pages 1, Exhibit Number 1182 filed in Interferences 106,007 and 106,008 on February 16, 2015.
<u> </u>	11

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(Not let submission under et et it 1.50)	Examiner Name	Not Y	et Assigned
	Attorney Docket Number		AVN-008CN41

ANDERSON, W. French, "Human Gene Therapy," Science, Vol. 256:808-813 (1992)
Annotated scenario introduced and referred to during March 12, 2015 deposition of Erik J. Sontheimer, Ph.D., (University of Western Australia Exhibit 2139, filed April 3, 2015 in Interferences 106007, 106008, and 106013, page 1.)
ANTHONY, Karen et al., "Dystrophin quantification: Biological and Translational Research Implications," Neurology, Vol. 83:1-8 (2014) (Exhibit Number 2028 filed in interferences 106008, 106013, 106007 on November 18, 2014)
AON PS1958 Mass Spectrometry Data, Pages 7, Exhibit Number 1146 filed in Interferences 106,007 and 106,008 on February 16, 2015.
AON PS1958 UPLC Data, Pages 2, Exhibit Number 1157 filed in Interferences 106,007 and 106,008 on February 16, 2015.
AON PS1959 Mass Spectrometry Data, Pages 5, Exhibit Number 1147 filed in Interferences 106,007 and 106,008 on February 16, 2015.
AON PS1959 UPLC Data, Pages 2, Exhibit Number 1158 filed in Interferences 106,007 and 106,008 on February 16, 2015.
AON PS1960 Mass Spectrometry Data, Pages 8, Exhibit Number 1148 filed in Interferences 106,007 and 106,008 on February 16, 2015.
AON PS1960 UPLC Data, Pages 2, Exhibit Number 1159 filed in Interferences 106,007 and 106,008 on February 16, 2015.
AON PS1961 Mass Spectrometry Data, Pages 5, Exhibit Number 1149 filed in Interferences 106,007 and 106,008 on February 16, 2015.
AON PS1961 UPLC Data, Pages 2, Exhibit Number 1160 filed in Interferences 106,007 and 106,008 on February 16, 2015.

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43	AON PS1962 Mass Spectrometry Data, Pages 7, Exhibit Number 1150 filed in Interferences 106,007 and 106,008 on February 16, 2015.
44	AON PS1962 UPLC Data, Pages 2, Exhibit Number 1161 filed in Interferences 106,007 and 106,008 on February 16, 2015.
45	AON PS1963 Mass Spectrometry Data, Pages 10, Exhibit Number 1151 filed in Interferences 106,007 and 106,008 on February 16, 2015.
46	AON PS1963 UPLC Data, Pages 2, Exhibit Number 1162 filed in Interferences 106,007 and 106,008 on February 16, 2015.
47	AON PS1964 Mass Spectrometry Data, Pages 13, Exhibit Number 1152 filed in Interferences 106,007 and 106,008 on February 16, 2015.
48	AON PS1964 UPLC Data, Pages 2, Exhibit Number 1163 filed in Interferences 106,007 and 106,008 on February 16, 2015.
49	AON PS1965 Mass Spectrometry Data, Pages 9, Exhibit Number 1153 filed in Interferences 106,007 and 106,008 on February 16, 2015.
50	AON PS1965 UPLC Data, Pages 2, Exhibit Number 1164 filed in Interferences 106,007 and 106,008 on February 16, 2015.
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

X A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

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	Attorney Docket Numb	er	AVN-008CN41	

1	MITRPANT, Chalermchai et al., "Rational Design of Antisense Oligomers to Induce Dystrophin Exon Skipping," Molecular Therapy, Vol. 17(8):1418-1426 (2009)	
2	MONACO, Anthony P. et al., "An Explanation for the Phenotypic Differences between Patients Bearing Partial Deletions of the DMD Locus," Genomics, Vol. 2:90-95 (1988)	
3	Morcos, Paul A., "Gene switching: analyzing a broad range of mutations using steric block antisense oligonucleotides," Methods in Enzymology, Vol. 313:174-189 (1999)	
4	MOULTON, H.M., "Compound and Method for Treating Myotonic Dystrophy," U.S. Application No. 12/493,140, 82 pages, filed June 26, 2009	
5	MOULTON, Hong M. et al., "Morpholinos and their peptide conjugates: Therapeutic promise and challenge for Duchenne muscular dystrophy," Biochimica et Biophysica Acta, Vol. 1798:2296-2303 (2010)	
6	Muntoni F, et al., "Dystrophin and mutations: one gene, several proteins, multiple phenotypes," Lancet Neurol. 2003;2:731-40.	
7	MUNTONI, Francesco et al., "128th ENMC International Workshop on 'Preclinical optimization and Phase I/II Clinical Trials Using Antisense Oligonucleotides in Duchenne Muscular Dystrophy' 22-24 October 2004, Naarden, The Netherlands," Neuromuscular Disorders, Vol. 15:450-457 (2005) (Exhibit Number 2025 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
8	MUNTONI, Francesco et al., "149th ENMC International Workshop and 1st TREAT-NMD Workshop on: 'Planning Phase I/II Clinical trials using Systemically Delivered Antisense Oligonucleotides in Duchenne Muscular Dystrophy," Neuromuscular Disorders, Vol. 18:268-275 (2008)	
9	Confirmatory Study of Eteplirsen in DMD Patients, An Open-Label, Multi-Center, 48-Week Study With a Concurrent Untreated Control Arm to Evaluate the Efficacy and Safety of Eteplirsen in Duchenne Muscular Dystrophy, Clinical Trials.gov, Clinical Trial Identifier NCT02255552, May 26, 2015, 3 pages.	
10	NELSON, David L. et al., "Nucleotides and Nucleic Acids," Lehninger Principles of Biochemistry, 3rd Edition, Chapter 10, pages 325-328 and glossary page G-11, Worth Publishers, New York (2000)	
11	Nguyen TM, et. Al., "Use of Epitope libraries to identify exon-specific monoclonal antibodies for characterization of altered dystrophins in muscular dystrophy," Am J Hum Genet 1993;52:1057-66.	

Case 1:21-cv-01015-JLH Doc	ument 435-1 Filed Application Number	l 12/ 1	18/23 Page 68 of 361 PageID #:	
NEODMATION BIOOLOGUEE	Filing Date		2017-09-14	
INFORMATION DISCLOSURE	First Named Inventor	Steph	nen Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(Not for Submission under or or it 1.50)	Examiner Name	Not Y	et Assigned	
	Attorney Docket Numb	er	AVN-008CN41	

12	Oberbauer, "Renal uptake of an 18-mer phosphorothioate oligonucleotide," Kidney Int'l, Vol. 48, pp. 1226-1232 (1995), Exhibit Number 1191 filed in Interferences 106,007 and 106,008 on February 17, 2015.	
13	Oligonucleotide Cleavage and Deprotection Laboratory Notebook Entry, Pages 1, Exhibit Number 1138 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
14	Oligonucleotide diagrams, 5 pages (Exhibit Number 1053 filed in interferences 106008, 106007 on November 18, 2014)	
15	Partial European Search Report for Application No. 10004274.6, 6 pages, dated October 2, 2012	
16	Partial European Search Report for Application No. 12162995.0, 6 pages, dated October 2, 2012	
17	Patentee's Response to European Patent Application No. 05076770.6, dated July 28, 2006, 4 pages	
18	Patrick O. Brown and Tidear D. Shalon v. Stephen P.A. Fodor, Dennis W. Solas and William J. Dower: Interference Merits Panel, Interference No. 104,358, 24 pages, dated August 9, 1999 (Exhibit Number 2113 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
19	PCT Application as-filed for application No. PCT/NL03/00214, 64 pages, dated September 21, 2005 (Exhibit Number 2042 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
20	PD-10 Desalting Columns, Pages 12, Exhibit Number 1141 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
21	Popplewell, et al., Design of Phosphorodiamidate Morpholino Oligomers (PMOs) For the Induction of Exon Skipping of the Human DMD Gene, DSGT Poster, 2008, 1 page.	
22	POPPLEWELL, Linda et al., "Design of phosphorodiamidate morpholino oligmers (PMOs) for the induction of exon skipping of the human DMD gene," Human Gene Therapy 19(10): ESGCT 2008 Poster Presentations, Page 1174, Poster No. P203	

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 69 of 361 PageID #: Application Number 15705172 Filing Date 2017-09-14 First Named Inventor Stephen Donald WILTON Art Unit 1674 Examiner Name Not Yet Assigned

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Attorney Docket Number

34	Prosensa Press Release, dated October 10, 2014 (2 pages), Exhibit Number 1203 filed in Interferences 106,007 and 106,008 on February 17, 2015.
35	Prosensa, "GSK and Prosensa Announce Primary Endpoint Not Met in Phase III Study of Drisapersen in Patients With Duchenne Muscular Dystrophy," press release, 4 pages, dated September 20, 2013 (Exhibit Number 2039 filed in Interferences 106008, 106013, 106007 on November 18, 2014)
36	Raz et al. v. Davis et al., Board of Patent Appeals and Inteferences, Patent and Trademark Office, Int. No. 105,712, Tech. Ctr. 1600, September 29, 2011 (24 pages) (2011 WL 4568986 (Bd.Pat.App. & Interf.), Exhibit Number 1209 filed in Interferences 106,007 and 106,008 on February 17, 2015.
37	REESE, Colin B. et al., "Reaction Between 1-Arenesulphonyl-3-Nitro-1,2,4-Triazoles and Nucleoside Base Residues. Elucidation of the Nature of Side-Reactions During Oligonucleotide Synthesis," Tetrahedron Letters, Vol. 21:2265-2268 (1980)
38	REESE, Colin B. et al., "The Protection of Thymine and Guanine Residues in Oligodeoxyribonucleotide Synthesis," J. Chem. Soc. Perkin Trans. 1, pages 1263-1271 (1984)
39	Reexamination Certificate - Application No. 90/011,320, issued March 27, 2012 (Exhibit Number 1072 filed in interferences 106008, 106007 on December 23, 2014)
40	Reply to EPO Communication dated June 26, 2014 in European Application Serial No. 13160338, (University of Western Australia Exhibit 2145, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-4).
41	Reply to EPO Communication dated October 21, 2014 in European Application Serial No. 12198517, (University of Western Australia Exhibit 2148, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-7).
42	Reply to EPO Communication dated October 23, 2014 in European Application Serial No. 12198485, (University of Western Australia Exhibit 2147, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-8).
43	Response to Office Action and Amendments to the Claims for Application No. 13/550,210, 10 pages, dated May 12, 2014 (Exhibit Number 2064 filed in interferences 106008, 106013, 106007 on November 18, 2014)
44	Rhodes et al., "BioMarin Bulks Up," BioCentury, pp. 6-8 (December, 2014), Exhibit Number 1193 filed in Interferences 106,007 and 106,008 on February 17, 2015.

Case 1:21-cv-01015-JLH Doc INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	cument 435-1 Filed 12/1 Application Number		1 8/23 Page 71 of 361 PageID #:	
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	First Named Inventor	Steph	en Donald WILTON	
	Art Unit		1674	
	Examiner Name	Not Y	et Assigned	
	Attorney Docket Number		AVN-008CN41	

	45	RNA Isolation Using RNA-BEE, Pages 1, Exhibit Number 1175 filed in Interferences 106,007 and 106,008 on February 16, 2015.						
	46	ROBE	OBERTS, Roland G. et al., "Exon Structure of the Human Dystrophin Gene," Genomics, Vol. 16:536-538 (1993)					
	47	Roest et al., "Application of In Vitro Myo-Differentiation of Non-Muscle Cells to Enhance Gene Expression and Facilitate Analysis of Muscle Proteins," Neuromuscul. Disord., Vol. 6, No. 3, pp. 195-202 (May, 1996), Exhibit Number 1124 filed in interferences 106,007 and 106,008 on February 17, 2015.						
	48	ROSSO, Mario G. et al., "An Arabidopsis thaliana T-DNA mutagenized population (GABI-Kat) for flanking sequence tag-based reverse genetics," Plant Molecular Biology, Vol. 53:247-259 (2003)						
	49	Saito, T. et al., "First-in-Human Study of NS-065/NCNP-01; the Morpholino Based Antisense Oligonucleotide for Exon 53 Skipping in Duchenne Muscular Dystrophy," ASGCT meeting , May 13, 2015, Abstract [136] 1 page.						
	50	Saito, T. et al., "First-in-Human Study of NS-065/NCNP-01; the Morpholino Based Antisense Oligonucleotide for Exon 53 Skipping in Duchenne Muscular Dystrophy," ASGCT meeting , May 13, 2015, pages 1-11.						
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Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

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Title of Invention:	ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF
First Named Inventor/Applicant Name:	Stephen Donald WILTON
Customer Number:	123147
Filer:	Amy E. Mandragouras/Anita Costa
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27	Other Reference-Patent/App/Search documents	13829545.pdf	9644b3c4b1cb8009fdbfb1b8884260e3cc8f a1a6	no	10
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28			1242fc1883343a669dafeeae08c8a3f885f7e c20		16
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Case 1	21-cv-01015-JLH Docume ı	nt 435-1 Filed 12/18/	23 Page 80 of (361 Page	ID #:
		32799	849006		
32	Other Reference-Patent/App/Search documents	14108137.pdf	5b48582097de7e4dd0951dc9431cf45c901 7ff61	no	18
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33	Other Reference-Patent/App/Search documents	14178059.pdf	51fd4e3376bcfce4152ebdd82c80ae43ef14 9b7b	no	8
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Case 1	21-cv-01015-JLH Docume ր	nt 435-1 Filed 12/18	/ 23 Page 81 of 8	61 Page	ID #:
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41		14273379.pdf	d1bee3a17b36cf262546affd5511f529a7f60 ea6	no	17
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42	Other Reference-Patent/App/Search documents		d45947c6797378a6b1d11b20e3ac2a95fb8 0a96d	no	21
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43	Other Reference-Patent/App/Search documents	14316609.pdf	44030b7a819393f479c49efa9e8b01ea2665 aedd	no	23
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45	Other Reference-Patent/App/Search documents	14523610.pdf	b225eac5cfbehf4a1536faf87bcb61f5d2570 153	no	30
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Case 1	21-cv-01015-JLH Docume ı	nt 435-1 - Filed 12/18/	23 Page 82 of (361 Page	ID #:
		32801	917075		
46	Other Reference-Patent/App/Search documents	14740097.pdf	0989f8e4794f9e7a0ae034ce1ab616471673 78a3	no	19
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47	Other Reference-Patent/App/Search documents	14743856.pdf	71b8543c73fef28cc3085fc6622449de71f27 7dc	no	9
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53	Other Reference-Patent/App/Search documents	14857555.pdf	0a94c12f5b3cf7bc09416e8ab245c525fb76 0cd1	no	12	
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New Applica If a new appl 1.53(b)-(d) a Acknowledg National Sta If a timely su U.S.C. 371 ar	ledgement Receipt evidences receip d by the applicant, and including pages described in MPEP 503. tions Under 35 U.S.C. 111 lication is being filed and the applicand MPEP 506), a Filing Receipt (37 CF) ement Receipt will establish the filing of an International Application under application under application under applicable requirements a Fige submission under 35 U.S.C. 371 wi	ge counts, where applicable. tion includes the necessary of R 1.54) will be issued in due g date of the application. ader 35 U.S.C. 371 of an international applicat orm PCT/DO/EO/903 indicat	. It serves as evidence components for a filir course and the date s ion is compliant with ing acceptance of the	of receipt s ng date (see shown on th the condition application	37 CFR is

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APPLICATION FILING or GRP ART 371(c) DATE FIL FEE REC'D ATTY.DOCKET.NO IND CLAIMS NUMBER UNIT TOT CLAIMS 15/705,172 09/14/2017 1674 730 AVN-008CN41 2

123147 Nelson Mullins Riley & Scarborough LLP/Sarepta One Post Office Square Boston, MA 02109

CONFIRMATION NO. 2879 FILING RECEIPT



Date Mailed: 09/26/2017

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections

Inventor(s)

Stephen Donald WILTON, Applecross, AUSTRALIA; Sue FLETCHER, Bayswater, AUSTRALIA; Graham MCCLOREY, Bayswater, AUSTRALIA;

Applicant(s)

The University of Western Australia, Crawley, AUSTRALIA;

Power of Attorney: The patent practitioners associated with Customer Number 123147

Domestic Priority data as claimed by applicant

This application is a CON of 15/274,772 09/23/2016 which is a CON of 14/740,097 06/15/2015 PAT 9605262 which is a CON of 13/741,150 01/14/2013 ABN which is a CON of 13/168,857 06/24/2011 ABN which is a CON of 12/837,359 07/15/2010 PAT 8232384 which is a CON of 11/570.691 01/15/2008 PAT 7807816 which is a 371 of PCT/AU2005/000943 06/28/2005

Foreign Applications (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.) AUSTRALIA 2004903474 06/28/2004 No Access Code Provided

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page 1 of 4

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention,

is **US 15/705,172**

Projected Publication Date: 01/04/2018

Non-Publication Request: No Early Publication Request: No

** SMALL ENTITY **

Title

ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF

Preliminary Class

536

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Dated: September 26, 2017

Electronic Signature for Amy E. Mandragouras, Esq.: /Amy E. Mandragouras, Esq./

Docket No.: AVN-008CN41 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Stephen Donald Wilton *et al.*

Application No.: 15/705,172 Confirmation No.: 2879

Filed: September 14, 2017 Art Unit: 1674

For: ANTISENSE OLIGONUCLEOTIDES FOR

INDUCING EXON SKIPPING AND METHODS OF USE THEREOF

Examiner: K. Chong

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (SIDS)

Dear Sir:

In compliance with 37 C.F.R. § 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the document listed on the attached PTO/SB/08. In accordance with 37 C.F.R. § 1.98(a)(2)(i)-(iv), Applicant has not included a copy of the U.S. Patent Publication.

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Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 91 of 361 PageID #: 32810

Application No.: 15/705,172 Docket No.: AVN-008CN41

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 C.F.R. § 1.97(b)(1)). Applicant believes no fee is due with this statement.

Dated: September 26, 2017 Respectfully submitted,

Electronic signature: /Amy E. Mandragouras, Esq./ Amy E. Mandragouras, Esq. Registration No.: 36,207 NELSON MULLINS RILEY & SCARBOROUGH LLP One Post Office Square Boston, Massachusetts 02109-2127 (617) 217-4626 (617) 217-4699 (Fax)

Attorney/Agent For Applicant

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)
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	Application Number		15705172	
	Filing Date		2017-09-14	
INFORMATION DISCLOSURE	First Named Inventor Stephe		hen Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(Not for Submission ander or or it 1.00)	Examiner Name	K. Cho	hong	
	Attorney Docket Number		AVN-008CN41	

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	1	20170009234	A1	2017-01	-12	WILTON et al.					
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INFORMATION DISCLOSURE		Application Number		/18/23 Page 93 of 361 PageID #:			
		Filing Date		2017-09-14			
		First Named Inventor	Stephe	en Donald WILTON			
STATEMENT B (Not for submission		Art Unit		1674			
(NOT IOI SUDINISSION	unuer 37 OFR 1.33)	Examiner Name	K. Cho	ong			
		Attorney Docket Number		AVN-008CN41			
	itional non-patent literatu	re document citation info		please click the Add b	utton Add		
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Examiner Signature			000000000000000000000000000000000000000	Date Considered			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							
Standard ST.3). 3 For Japa	nese patent documents, the in- ppropriate symbols as indicate	SPTO.GOV or MPEP 901.04. Addition of the year of the reign don the document under WIPC	of the Em	peror must precede the seria	al number of the patent do	ocument.	

Case 1:21-cv-01015-JLH Doc	umant 12E 1 Eilac	112/	19/22 - Dago 04 of 261 DagoID #-
Case 1.21-CV-01015-3EH DOC	Application Number	1 12/-	18/23 Page 94 of 361 PageID #: 15705172
INCORNATION DISCUSSION	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(Not for Submission ander or or it 1.00)	Examiner Name	K. Ch	ong
	Attorney Docket Numb	er	AVN-008CN41

CERTIFICAT	TION ST	ATEMENT	Γ
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

That no item of information contained in the information disclosure statement was cited in a communication from a
foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification
after making reasonable inquiry, no item of information contained in the information disclosure statement was known to
any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure
statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

X A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-26
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**.

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

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 court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement
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- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 96 of 361 PageID # Electronic Acknowledgement Receipt						
EFS ID:	30470917					
Application Number:	15705172					
International Application Number:						
Confirmation Number:	2879					
Title of Invention:	ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF					
First Named Inventor/Applicant Name:	Stephen Donald WILTON					
Customer Number:	123147					
Filer:	Amy E. Mandragouras/Anita Costa					
Filer Authorized By:	Amy E. Mandragouras					
Attorney Docket Number:	AVN-008CN41					
Receipt Date:	26-SEP-2017					
Filing Date:	14-SEP-2017					
Time Stamp:	17:31:06					
Application Type:	Utility under 35 USC 111(a)					

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	2017-00-26_IDSTRANS_AVN-00 8CN41_4837-0227-6945_v1.pdf		no	2
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Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 97 of 361 PageID #:										
information: 32816										
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2	Information Disclosure Statement (IDS) Form (SB08)	SB08.pdf	720550c02315856293e36d5f694fb7618ea 25b9a	no	4					
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Total Files Size (in bytes		1082990								

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 98 of 361 PageID #:

32817 chris.schlauch@nelsonmullins.com,ipqualityassuranceboston@nelsonmullins.com,ipboston.docketing@nel

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Cc: PAIR_eOfficeAction@uspto.gov

Subject: Private PAIR Correspondence Notification for Customer Number 123147

Sep 26, 2017 03:40:05 AM

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To:

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/705,172	09/14/2017	Stephen Donald WILTON	AVN-008CN41	2879
	7590 10/05/201 Riley & Scarborough 1	EXAMINER		
One Post Office	Square	CHONG, KIMBERLY		
Boston, MA 02109			ART UNIT	PAPER NUMBER
			1674	
			NOTIFICATION DATE	DELIVERY MODE
			10/05/2017	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ipboston.docketing@nelsonmullins.com chris.schlauch@nelsonmullins.com ipqualityassuranceboston@nelsonmullins.com

Case 1:21-cv-01015-JLH Document 43	5-1 Filed 12/18/23 Populication No. 15/705,172	Page 100 of 361 PageID Applicant(s) WILTON ET AL.	
Office Action Summary	Examiner KIMBERLY CHONG	Art Unit 1674	AIA (First Inventor to File) Status No
The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with the	corresponder	nce address
A SHORTENED STATUTORY PERIOD FOR REPLY THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period wi - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tii Il apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed the mailing date of ED (35 U.S.C. § 13	of this communication. 33).
Status			
1) Responsive to communication(s) filed on 09/26. A declaration(s)/affidavit(s) under 37 CFR 1.13 2a) This action is FINAL. 2b) This action are possible applicant in respossible applicant in respossible application requirement and election. 4) Since this application is in condition for allowance closed in accordance with the practice under Expression.	30(b) was/were filed on action is non-final. nse to a restriction requirement have been incorporated into this ce except for formal matters, pro	s action. osecution as	to the merits is
Disposition of Claims*	, part = 125, 125		
5) Claim(s) 2 and 3 is/are pending in the application 5a) Of the above claim(s) is/are withdraw 6) Claim(s) is/are allowed. 7) Claim(s) is/are rejected. 8) Claim(s) is/are objected to. 9) Claim(s) 2 and 3 are subject to restriction and/of the subjection of the corresponding apparticipating intellectual property office for the corresponding apparticipating intellectual property office for the corresponding apparticipation papers 10) The specification is objected to by the Examiner 11) The drawing(s) filed on 09/14/2017 is/are: a) Applicant may not request that any objection to the definition of the desired papers.	or election requirement. gible to benefit from the Patent Pro plication. For more information, ple an inquiry to <u>PPHfeedback@uspto.</u> accepted or b) □ objected to by Irawing(s) be held in abeyance. Se	ase see gov. y the Examin e 37 CFR 1.85	er. 5(a).
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign proceeding and the copies: a) All b) Some** c) None of the: 1. Certified copies of the priority documents and copies of the priority documents and copies of the certified copies of the priority documents and copies of the certified copies of the priority documents application from the International Bureau seems are seen the attached detailed Office action for a list of the certified copies of the certified seems are seen attached detailed Office action for a list of the certified copies of the certified seems are seen attached detailed Office action for a list of the certified copies of the certified seems are seen attached detailed Office action for a list of the certified copies of the certified seems are seen attached detailed Office action for a list of the certified copies of the certified seems are seen at a seem are seems are seen at a seem are seems are seen at a seem are seems are seen at a seem are seen at a seem are seen at a seem are seems are seen at a seem are seen at a seem are seen at a seem are seems are seen at a seem are seems are seems are seen at a seem are seems are seems are seems at a seem are seems at a seems are seems as a seem are seems	s have been received. s have been received in Applica rity documents have been receiv (PCT Rule 17.2(a)).	tion No	
Attachment(s) 1) Notice of References Cited (PTO-892)	2) 🔲 lmta	(/DTO 440)	
Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SI Paper No(s)/Mail Date 09/22/2017.	3) Interview Summary Paper No(s)/Mail D 4) Other:		

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-13)

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The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Status of Application/Amendment/Claims

Claims 2 and 3 are pending and currently under examination.

Information Disclosure Statement

The submission of the Information Disclosure Statements on 09/22/2017 is in compliance with 37 CFR 1.97. The information disclosure statement has been considered by the examiner and signed copies have been placed in the file.

Claim Rejections - 35 USC § 103

The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 3 are rejected under pre-AIA 35 U.S.C. 103(a) as being obvious over van Ommen (WO2004/083432 cited on IDS filed 09/22/2017) and Koenig et al. (Nature 338, 509 - 511 06 April 1989 cited on IDS filed 09/22/2017).

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The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under pre-AIA 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

The claims are drawn to an antisense oligonucleotide of 20-31 bases comprising a base sequence 100% complementary to consecutive bases of exon 53 of the human dystrophin pre-mRNA, wherein the antisense oligonucleotide base sequence comprises at least 12 consecutive bases of SEQ ID NO: 195, wherein uracil bases are thymine bases, wherein the antisense oligonucleotide is a morpholino antisense oligonucleotide, and wherein the antisense induces exon 53 skipping. The claims are further drawn to a pharmaceutical composition comprising said antisense oligonucleotide.

van Ommen teach a genus of oligonucleotides 16-50 complementary to exon 53 and has identified an active range in the DMD gene and have shown two oligonucleotide h53AON1 and h53AON2 that cause skipping of exon 53 (see Table 2). van Ommen et al. teach the oligonucleotides can be complementary to the exon in the pre-mRNA. Thus given the sequence of the DMD gene has been identified, as demonstrated by Koenig et al., an oligonucleotide sequence complementary to that

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portion of the mRNA is exactly determined by the simple base pairing rules of DNA and RNA (G being complementary to C, and A being complementary to T (or U)).

vanOmmen et al. the oligonucleotide can have modifications such as morpholino phosphorodiamidate, peptide nucleic acid and locked nucleic acids, for example, and further teach the oligonucleotide comprises modified internucleoside linkages (see claim 12 and page 23). The oligonucleotide taught by van Ommen et al. encompasses both DNA and RNA nucleic acids as well as nucleic acids that are a combination of DNA and RNA as stated on page 9: lines 9-10 "Any oligonucleotide fulfilling the requirements of the invention may be used to induce exon skipping in the DMD gene." van Ommen et al. teach different nucleic acids may be used to generate the oligonucleotide (see page 9 line 30 - page 10). Thus oligonucleotides in which uracil bases are thymine bases are encompassed in the meaning of 'oligonucleotide' taught by van Ommen et al.

It would have been obvious to one of ordinary skill in the art to make an antisense oligonucleotide of 20-31 bases comprising at least 12 bases of SEQ ID No. 195. Given van Ommen et al. teach a genus of oligonucleotides of up to 50 nucleotides in length, one of skill in the art would have been motivated to use the sequence of h53AON1 to arrive at oligonucleotides of 20 nucleotides and having 12 nucleotides of SEQ ID No. 195 (which overlaps with 3 nucleotides of h53AON1). Because van Ommen et al. has identified exon 53 and shown oligonucleotides targeting this region can cause exon skipping and because the mRNA sequence containing the exon 53 was known in the prior art, as shown by Keonig et al., the combination of these teachings

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provides motivation to prepare obvious variants of h53AON1 to try and optimize the activity of the oligonucleotide to prepare the most effective therapeutic for treating DMD.

It would have been routine and a common strategy to try and enhance the oligonucleotide by identifying variants of that oligonucleotide that have a higher level of activity and a common and efficient strategy for doing so is to synthesize and test longer oligonucleotides containing within them the sequence known to have the desired activity.

Thus in the absence of evidence to the contrary, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP §

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717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(I)(1) - 706.02(I)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/forms/. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

Claims 2 and 3 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-36 of U.S. Patent No. 8,455,636. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant claims and the claims of the patent are drawn to antisense oligonucleotides having at least 17 consecutive bases of SEQ ID No. 193.

Claims 2 and 3 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-25 of U.S. Patent No. 8,232,384. Although the conflicting claims are not identical, they are not patentably

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distinct from each other because the instant claims and the claims of the patent are drawn to antisense oligonucleotides having at least 17 consecutive bases of SEQ ID No. 193.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

706.07(a) Final Rejection, When Proper on Second Action [R-07.2015]

Second or any subsequent actions on the merits shall be final, except where the examiner introduces a new ground of rejection that is neither necessitated by applicant's amendment of the claims, nor based on information submitted in an information disclosure statement filed during the period set forth in 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p). Where information is submitted in an information disclosure statement during the period set forth in 37 CFR 1.97(c) with a fee, the examiner may use the information submitted, e.g., a printed publication or evidence of public use, and make the next Office action final whether or not the claims have been amended, provided that no other new ground of rejection which was not necessitated by amendment to the claims is introduced by the examiner. See MPEP \$ 609.04(b).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Kimberly Chong whose telephone number is 571-272-3111.** The examiner can normally be reached Monday thru Friday 9-5 pm.

If attempts to reach the examiner by telephone are unsuccessful please contact the SPE for 1674 Ram Shukla at 571-272-0735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file

Art Unit: 1674

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/Kimberly Chong/ Primary Examiner Art Unit 1674 Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE	Application Number		15705172
	Filing Date		2017-09-14
	First Named Inventor	First Named Inventor Stephen Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(Not for Submission under or of it 1.55)	Examiner Name	Not Y	et Assigned
	Attorney Docket Number		AVN-008CN41

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	4458066		1984-07-03	Caruthers et al.	
	2	5034506		1991-07-23	Summerton et al.	
	3	5138045		1992-08-11	Cook et al.	
	4	5142047		1992-08-25	Summerton et al.	
	5	5149797		1992-09-22	Pederson et al.	
	6	5166315		1992-11-24	Summerton et al.	
	7	5185444		1993-02-09	Summerton et al.	
	8	5190931		1993-03-02	Inouye	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)			2017-09-14	
	First Named Inventor Steph		hen Donald WILTON	
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(Not for Submission under or or it 1.00)	Examiner Name	Not Y	et Assigned	
	Attorney Docket Numb	er	AVN-008CN41	

9	5217866	1993-06-08	Summerton et al.	
10	5506337	1996-04-09	Summerton et al.	
11	5521063	1996-05-28	Summerton et al.	
12	5627274	1997-05-06	Kole et al.	
13	5665593	1997-09-09	Kole et al.	
14	5698685	1997-12-16	Summerton et al.	
15	5801154	1998-09-01	Baracchini et al.	
16	5869252	1999-02-09	Bourna et al.	
17	5892023	1999-04-06	Pirotzky et al.	
18	5916808	1999-06-29	Kole et al.	
19	5976879	1999-11-02	Kole et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date		2017-09-14	
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	Examiner Name	ne Not Yet Assigned		
	Attorney Docket Number	er	AVN-008CN41	

20	6153436	2000-11-28	Hermonat et al.	
21	6210892	2001-04-03	Bennett et al.	
22	6312900	2001-11-06	Dean et al.	
23	6391636	2002-05-21	Monia	
24	6451991	2002-09-17	Martin et al.	
25	6653466	2003-11-25	Matsuo	
26	6653467	2003-11-25	Matsuo et al.	
27	6656732	2003-12-02	Bennett et al.	
28	6727355	2004-04-27	Matsuo et al.	
29	6784291	2004-08-31	lversen et al.	
30	6806084	2004-10-19	Debs et al.	

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	First Named Inventor	Stephen Donald WILTON		
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(Net 101 Submission under 01 Of 10 1.33)	Examiner Name	Not Yet Assigned		
	Attorney Docket Numb	er	AVN-008CN41	

31	7001761	2006-02-21	Xiao	
32	7070807	2006-07-04	Mixson	
33	7163695	2007-01-16	Mixson	
34	7250289	2007-07-31	Zhou	
35	7314750	2008-01-01	Zhou	
36	7468418	2008-12-23	Iversen et al.	
37	7534879	2009-05-19	van Deutekom	
38	7655785	2010-02-02	Bentwich	
39	7655788	2010-02-02	Khvorova et al.	
40	7807816	2010-10-05	Wilton et al.	
41	7902160	2011-03-08	Matsuo et al.	

			110/22 Dega 112 of 201 Degal D	
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(Not let submission under et et it 1.ee)	Examiner Name	Not Y	et Assigned	
	Attorney Docket Number	er	AVN-008CN41	

42	7960541	2011-06-14	Wilton et al.	
43	7973015	2011-07-05	van Ommen et al.	
44	8084601	2011-12-27	Popplewell et al.	
45	8232384	2012-07-31	Wilton et al.	
46	8324371	2012-12-04	Popplewell et al.	
47	8361979	2013-01-29	Aartsma-Rus et al.	
48	8436163	2013-05-07	Iversen et al.	
49	8450474	2013-05-28	Wilton et al.	
50	8455634	2013-06-04	Wilton et al.	
51	8455635	2013-06-04	Wilton et al.	
52	8455636	2013-06-04	Wilton et al.	

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	Art Unit		1674
(Not let submission under et et it 1.ee)	Examiner Name	Not Y	et Assigned
	Attorney Docket Numb	er	AVN-008CN41

53	8461325	2013-06-11	Popplewell et al.	
54	8476423	2013-07-02	Wilton et al.	
55	8486907	2013-07-16	Wilton et al.	
56	8501703	2013-08-06	Bennett et al.	
57	8501704	2013-08-06	Mourich et al.	
58	8524676	2013-09-03	Stein et al.	
59	8524880	2013-09-03	Wilton et al.	
60	8536147	2013-09-17	Weller et al.	
61	8552172	2013-10-08	Popplewell et al.	
62	8592386	2013-11-26	Mourich et al.	
63	8618270	2013-12-31	Iversen et al.	

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(Not let submission under et et it 1.ee)	Examiner Name	Not Y	et Assigned
	Attorney Docket Number	er	AVN-008CN41

64	8624019	2014-01-07	Matsuo et al.	
65	8637483	2014-01-28	Wilton et al.	
66	8697858	2014-04-15	lversen	
67	8741863	2014-06-03	Moulton et al.	
68	8759307	2014-06-24	Stein et al.	
69	8759507	2014-06-24	Van Deutekom	
70	8779128	2014-07-15	Hanson et al.	
71	8785407	2014-07-22	Stein et al.	
72	8785410	2014-07-22	Iversen et al.	
73	8835402	2014-09-16	Kole et al.	
74	8865883	2014-10-21	Sazani et al.	

			18/23 Page 116 of 361 PageID 15/05172
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(Not let Submission under et et it 1.ee)	Examiner Name	Not Y	et Assigned
	Attorney Docket Numb	er	AVN-008CN41

75	8871918	2014-10-28	Sazani et al.	
76	8877725	2014-11-04	lversen et al.	
77	8895722	2014-11-25	lversen et al.	
78	8906872	2014-12-09	lversen et al.	
79	9018368	2015-04-28	Wilton et al.	
80	9024007	2015-05-05	Wilton et al.	
81	9035040	2015-05-19	Wilton et al.	
82	9175286	2015-11-03	Wilton et al.	
83	9217148	2015-12-22	Bestwick et al.	
84	9234198	2016-01-12	Sazani et al.	
85	9249416	2016-02-02	Wilton et al.	

	Tile		110/22 Page 117 of 201 Page P
Case 1.21-CV-01015-JEH D00	Application Number 6	u 12/	18 /23 Page 117 of 361 PageID 15/05172
INFORMATION BIOGLACUES	Filing Date		2017-09-14
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(Not let submission under et et it 1.ee)	Examiner Name	Not Y	et Assigned
	Attorney Docket Number	er	AVN-008CN41

86	9416361	2016-08-16	Iversen et al.	
87	9422555	2016-08-23	Wilton et al.	
88	9434948	2016-09-06	Sazani et al.	
89	9441229	2016-09-13	Wilton et al.	
90	9447415	2016-09-20	Wilton et al.	
91	9447416	2016-09-20	Sazani et al.	
92	9447417	2016-09-20	Sazani et al.	
93	9453225	2016-09-27	Sazani et al.	
94	9506058	2016-11-29	Kaye	
95	9605262	2017-03-28	Wilton et al.	
96	9228187	2016-01-05	Wilton et al.	

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Case 1.21-CV-01015-JEH D00	Application Number 7	u 12/	18/23 Page 118 of 361 PageID 15/05172	
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INFORMATION DISCLOSURE	First Named Inventor	Steph	nen Donald WILTON	_
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	_
(Not for Submission under or of it 1.00)	Examiner Name	Not Y	et Assigned	_
	Attorney Docket, Numb	er	AVN-008CN41	

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			U.S.P	ATENT APPLIC	CATION PUBLICATIONS		Remove
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Releva	Columns,Lines where nt Passages or Relevant Appear
	1	20010056077		2001-12-27	Matsuo		
	2	20020055481	A1	2002-05-09	Matsuo et al.		
	3	20020049173	A1	2002-04-25	Bennett et al.		
	4	20020110819	A1	2002-08-15	Weller et al.		
	5	20020156235	A1	2002-10-24	Manoharan et al.		
	6	20030166588	A1	2003-09-04	lversen et al.		
	7	20030224353	A1	2003-12-04	Stein et al.		
	8	20030235845	A1	2003-12-25	van Ommen et al.		
	9	20040266720	A1	2004-12-30	Iversen et al.		

			18/23 Page 119 of 361 PageID
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INFORMATION DIOCE COURS	Filing Date		2017-09-14
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(Not for Submission under or of it 1.00)	Examiner Name	Not Y	et Assigned
	Attorney Docket Number	er	AVN-008CN41

10	20040248833	A1	2004-12-09	Emanuele et al.	
11	20040254137	A1	2004-12-16	Ackermann et al.	
12	20050026164	A1	2005-02-03	Zhou	
13	20050048495	A1	2005-03-03	Baker et al.	
14	20050153935	A1	2005-07-14	Iversen et al.	
15	20060148740	A1	2006-07-06	Platenburg	
16	20060099616	A1	2006-05-11	van Ommen et al.	
17	20060147952	A1	2006-07-06	van Ommen et al.	
18	20060287268	A1	2006-12-21	Iversen et al.	
19	20070037165	A1	2007-02-15	Venter et al.	
20	20070082861	A1	2007-04-12	Matsuo et al.	

			18/23 Page 120 of 361 PageID 15/05172	
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(Not let Submission under et et l'. 1.ee)	Examiner Name	Not Y	et Assigned	
	Attorney Docket Numb	er	AVN-008CN41	

21	20070265215	A1	2007-11-15	Iversen et al.	
22	20080194463	A1	2008-08-14	Weller et al.	
23	20080200409	A1	2008-08-21	Wilson et al.	
24	20080209581	A1	2008-08-28	van Ommen et al.	
25	20090076246	A1	2009-03-19	van Deutekom	
26	20090082547	A1	2009-03-26	lversen et al.	
27	20090088562	A1	2009-04-02	Weller et al.	
28	20090099066	A1	2009-04-16	Moulton et al.	
29	20090228998	A1	2009-09-10	van Ommen et al.	
30	20090269755	A1	2009-10-29	Aartsma-Rus et al.	
31	20090312532	A1	2009-12-17	Van Deutekom et al.	

Coop 1,21 ov 0101F 1LL Doc	rumont 42F 1 File	4 1 2 /	10/22 Dogg 121 of 261 Dogg D	
Case 1:21-cv-01015-JLH Doc	tument 435-1 File Application Number #. 1978-40	u 12/	18/23 Page 121 of 361 PageID 15/05172	
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(Not for Submission under or of it 1.00)	Examiner Name	Not Y	et Assigned	
	Attorney Docket Number	er	AVN-008CN41	

32	2	20100016215	A1	2010-01-21	Moulton et al.	
33	3	20100130591	A1	2010-05-27	Sazani et al.	
34	4	20100168212	A1	2010-07-01	POPPLEWELL et al.	
35	5	20110015253	A1	2011-01-20	Wilton et al.	
36	6	20110015258	A1	2011-01-20	Wilton et al.	
37	7	20110046360	A1	2011-02-24	MATSUO et al.	
38	8	20110110960	A1	2011-05-12	PLATENBURG	
39	9	20110263682	A1	2011-10-27	De Kimpe et al.	
40	0	20110263686	A1	2011-10-27	WILTON et al.	
41	1	20110281787	A1	2011-11-17	Lu et al.	
42	2	20110294753	A1	2011-12-01	De Kimpe et al.	

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(Not for Submission under or of it 1.00)	Examiner Name	Not Y	et Assigned
	Attorney Docket Number	er	AVN-008CN41

43	20110312086	A1	2011-12-22	Van Deutekom	
44	20120053228	A1	2012-03-01	lversen et al.	
45	20120065244	A1	2012-03-15	Popplewell et al.	
46	20120289457	A1	2012-11-15	Hanson	
47	20120022134	A1	2012-01-26	DE KIMPE et al.	
48	20120022144	A1	2012-01-26	Wilton et al.	
49	20120022145	A1	2012-01-26	Wilton et al.	
50	20120029057	A1	2012-02-02	Wilton et al.	
51	20120029058	A1	2012-02-02	Wilton et al.	
52	20120029059	A1	2012-02-02	Wilton et al.	
53	20120029060	A1	2012-02-02	Wilton et al.	

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(Not for Submission under or or it 1.00)	Examiner Name	Not Y	et Assigned
	Attorney Docket Number	er	AVN-008CN41

54	20120041050	A1	2012-02-16	Wilton et al.	
55	20120046342	A1	2012-02-23	Van Deutekom et al.	
56	20120059042	A1	2012-03-08	Platenburg et al.	
57	20120065169	A1	2012-03-15	Hanson et al.	
58	20120108652	A1	2012-05-03	POPPLEWELL et al.	
59	20120108653	A1	2012-05-03	POPPLEWELL et al.	
60	20120115150	A1	2012-05-10	Bozzoni et al.	
61	20120122801	A1	2012-05-17	PLATENBURG	
62	20120149756	A1	2012-06-14	Schumperti et al.	
63	20120172415	A1	2012-07-05	Voit et al.	
64	20120202752	A1	2012-08-09	L.u	

Coop 1,21 av 01015 1111 Dog	numant 10F 1 File	4 1 2 /	10/22 Dogg 124 of 261 Dogg D	
Case 1:21-cv-01015-JLH Doc	Application Number 3	u 12/	18/23 Page 124 of 361 PageID 15/05172	
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	Art Unit		1674	
rection submission under or or it i.ou,	Examiner Name	Not Y	et Assigned	
	Attorney Docket Numb	er	AVN-008CN41	

65	20130116310	A1	2013-05-09	Wilton et al.	
66	20130190390	A1	2013-07-25	SAZANI et al.	
67	20130217755	A1	2013-08-22	WILTON et al.	
68	20130253033	A1	2013-09-26	WILTON et al.	
69	20130253180	A1	2013-09-26	WILTON et al.	
70	20130274313	A1	2013-10-17	WILTON et al.	
71	20130331438	A1	2013-12-12	WILTON et al.	
72	20130072671	A1	2013-03-21	Van Deutekom	
73	20130090465	A1	2013-04-11	MATSUO et al.	
74	20130197220	A1	2013-08-01	Ueda	
75	20130211062	A1	2013-08-15	Watanabe et al.	

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Case 1.21-CV-01015-JEH D00	Application Number 455-1 File	u 12/	18/23 Page 125 of 361 PageID 15/05172
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rection submission under or or it isos,	Examiner Name	Not Y	et Assigned
	Attorney Docket Numb	er	AVN-008CN41

76	2013	0289096	A1	2013-10-31	POPPLEWELL et al.	
77	2013	0302806	A1	2013-11-14	Van Deutekom	
78	2014	0080896	A1	2014-03-20	Nelson et al.	
79	2014	0080898	A1	2014-03-20	Wilton et al.	
80	2014	0094500	A1	2014-04-03	SAZANI et al.	
81	2014	0155587	A1	2014-06-05	WILTON et al.	
82	2014	0243515	A1	2014-08-28	WILTON et al.	
83	2014	0243516	A1	2014-08-28	WILTON et al.	
84	2014	0296323		2014-10-02	Leumann et al.	
85	2014	0315862	A1	2014-10-23	Kaye	
86	2014	0315977	A1	2014-10-23	BESTWICK et al.	

Coop 1,21 av 01015 1111 Dog	numant 10F 1 File	4 1 2 /	110/22 Dogg 126 of 261 Dogg D
Case 1:21-cv-01015-JLH Doc	Application Number 5	u 12/	18/23 Page 126 of 361 PageID 15/05172
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Not for submission under 37 CFR 1.99)	Art Unit		1674
rection submission under or or it i.ou,	Examiner Name	Not Y	et Assigned
	Attorney Docket Numb	er	AVN-008CN41

87	20140316123		2014-10-23	Matsuo et al.	
88	20140323544	A1	2014-10-30	BESTWICK et al.	
89	20140329762	A1	2014-11-06	KAYE	
90	20140329881	A1	2014-11-06	Bestwick et al.	
91	20140343266	A1	2014-11-20	Watanabe et al.	
92	20140350067	A1	2014-11-27	Wilton et al.	
93	20140350076		2014-11-27	van Deutekom	
94	20140357698		2014-12-04	Van DEUTEKOM et al.	
95	20140357855	A1	2014-12-04	Van DEUTEKOM et al.	
96	20140057964	A1	2014-02-27	POPPLEWELL et al.	
97	20140113955	A1	2014-04-24	De Kimpe et al.	

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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(NOTION SUBMISSION UNDER OF OTTE 1.55)	Examiner Name Not Y		ot Yet Assigned	
	Attorney Docket Numb	er	AVN-008CN41	

98	20140128592	A1	2014-05-08	De Kimpe et al.	
99	20140213635	A1	2014-07-31	Van DEUTEKOM	
100	20140221458	A1	2014-08-07	De Kimpe et al.	
101	20140275212	A1	2014-09-18	van Deutekom	
102	20150232839	A1	2015-08-20	Iversen et al.	
103	20150376615	A1	2015-12-31	Wilton et al.	
104	20150376616	A1	2015-12-31	Wilton et al.	
105	20150376617	A1	2015-12-31	SAZANI et al.	
106	20150376618	A1	2015-12-31	Sazani et al.	
107	20150152415	A1	2015-06-04	SAZANI et al.	
108	20150353931	A1	2015-12-10	Wilton et al.	

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INFORMATION DISCLOSURE	Filing Date		2017-09-14	
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(NOTION SUBMISSION UNDER OF OTRE 1.00)	Examiner Name Not Y		ot Yet Assigned	
	Attorney Docket Number	er	AVN-008CN41	

109	20150361428	A1	2015-12-17	Bestwick et al.
110	20150045413	A1	2015-02-12	De Visser et al.
111	20150057330	A1	2015-02-26	Wilton et al.
112	20160002631	A1	2016-01-07	Wilton et al.
113	20160002632	A1	2016-01-07	Wilton et al.
114	20160002633	A1	2016-01-07	Sazani et al.
115	20160002634	A1	2016-01-07	Sazani et al.
116	20160002635	A1	2016-01-07	Wilton et al.
117	20160002637	A1	2016-01-07	Sazani et al.
118	20160040162	A1	2016-02-11	BESTWICK et al.
119	20160177301	A1	2016-06-23	Wilton et al.

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				Attorn	ey Docl	ket Numb	er	AVN-008CN41			
	120 20160298111 A1		2016-10	2016-10-13 Bestwick et al.							

	121	20170009233	A1	2017-01	7-01-12 WILTON et al.						
	122	20140045916	A1	2014-02	<u>?</u> -13	lversen et	al.				
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	1	2003284638	AU		A1	2004-06-1	8	KOBE UNIVERSITY	,		
	2	780517	AU		B2	2005-03-2	4	JCR Pharmaceutical Co., Ltd.	s		
	3	2507125	CA		A1	2004-06-1	0	Masafumi Matsuo			
	4	1054058	EΡ		A1	2000-11-2	2	JCR Pharmaceutical Co., Ltd.	s		
	5	1160318	EP		A2	2001-12-0		JCR Pharmaceutical Co., Ltd	s		

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7	1191097	EΡ	A1	2002-03-27	LEIDS UNIVERSITAIR MEDISCH CENTRUM
8	1191098	EP	A2	2002-03-27	JCR PHARMACEUTICALS CO., LTD.
9	1191098	EP	B9	2006-06-28	Jcr Pharmaceuticals Co., Ltd
10	1495769	EP	A1	2005-01-12	LBR MEDBIOTECH B.V.
11	1495769	EP	B1	2008-02-27	Lbr Medbiotech B V
12	1544297	EP	A2	2005-06-22	Jcr Pharmaceuticals Co., Ltd
13	1544297	EP	B1	2009-09-16	Jcr Pharmaceuticals Co., Ltd
14	1568769	EP	A1	2005-08-31	MATSUO, MASAFUMI ET AL.
15	1606407	EP	B1	2013-12-18	ACADEMISCH ZIEKENHUIS LEIDEN
16	1619249	EP	B1	2008-09-24	Academisch Ziekenhuis Leiden
17	1619249	EP	A1	2006-01-25	ACADEMISCH ZIEKENHUIS LEIDEN

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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
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18	1766010	EP	B1	2007-03-28	Univ Westem Australia
19	1857548	EP	A1	2007-11-21	Academisch Ziekenhuis Leiden
20	2119783	EP	A1		PROSENSA TECHNOLOGIES B.V.
21	2135 9 48	EP	B1	2014-09-17	Matsuo, Masafumi
22	2135948	EP	A2	2009-12-23	Matsuo, Masafumi
23	2206781	EP	A 2	2010-07-14	The University of Western Australia
24	2258863	EP	A1	2010-12-08	UNIVERSITA 'DEGLI STUDI DI ROMA "LA SAPIENZA"
25	2284264	EP	A1	2011-02-16	Academisch Ziekenhuis Leiden
26	2374885	EP	A2	2011-10-12	Matsuo, Masafumi et al.
27	2386636	EP	A2	2011-11-16	Matsuo, Masafumi et al.
28	2392660	EP	A2	2011-12-07	Matsuo, Masafumi et al.

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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
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29	2435582	ЕР	B1		UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA	
30	2435583	EP	B1	2014-07-09	UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA	
31	2488165	EP	B1	2014-07-23	Universita Degli Studi di Ferrara	
32	2500430	EP	A 2	2012-09-19	Univ Westem Australia	
33	2530153	EP	A1	2012-12-05	Matsuo, Masafumi et al.	
34	2530154	EP	A1	2012-12-05	Matsuo, Masafumi et al.	
35	2530155	EP	A 1	2012-12-05	MATSUO, MASAFUMI ET AL.	
36	2530156	EP	A1	2012-12-05	MATSUO, MASAFUMI ET AL.	
37	2581448	EP	A1	2013-04-17	ASSOCIATION INSTITUT DE MYOLOGIE ET AL.	
38	2594640	EP	A1	2013-05-22	ACADEMISCH ZIEKENHUIS LEIDEN	
39	2594641	EP	A1	2013-05-22	ACADEMISCH ZIEKENHUIS LEIDEN	

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40	2594642	EP	A1	2013-05-22	ACADEMISCH ZIEKENHUIS LEIDEN
41	2602322	EP	A1	2013-06-12	ACADEMISCH ZIEKENHUIS LEIDEN
42	2607484	EP	A1	2013-06-26	Prosensa Technologies B.V. et al.
43	2612 9 17	EP	A1	2013-07-10	NIPPON SHINYAKU CO., LTD.
44	2614827	EP	A2	2013-07-17	ACADEMISCH ZIEKENHUIS LEIDEN
45	2623507	EP	A1	2013-08-07	NIPPON SHINYAKU CO., LTD.
46	2636740	EP	A1	2013-09-11	Academisch Ziekenhuis Leiden
47	2636741	EP	A1	2013-09-11	ACADEMISCH ZIEKENHUIS LEIDEN
48	2636742	EΡ	A1	2013-09-11	ACADEMISCH ZIEKENHUIS LEIDEN
49	2799548	EP	A1	2014-11-05	NIPPON SHINYAKU CO., LTD
50	2801618	EP	A1	2014-11-12	Academisch Ziekenhuis Leiden

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10	A Comparative Study on AONs between 20 and 50 Nucleotides Designed to Induce the Skipping of Exon 53 from the Dystrophin Pre-mRNA, Pages 6, Exhibit Number 1128 filed in Interferences 106,007 and 106,008 on February 17, 2015.
11	A Comparative Study on AONs Between 20 and 50 Nucleotides Designed to Induce the Skipping of Exon 51 from the Dystrophin Pre-mRNA, Pages 6, Exhibit Number 1127 filed in Interferences 106,007 and 106,008 on February 17, 2015.
12	Aartsma-Rus A, et al. "Theoretic applicability of antisense-mediated exon skipping for Duchenne muscular dystrophy mutations," Hum Mutat 2009;30:293-99.
13	Aartsma-Rus et al., "Antisense-induced exon skipping for duplications in Duchenne muscular dystrophy," BMC Medical Genetics 8:43 (2007), (University of Western Australia Exhibit 2135, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-9.)
14	AARTSMA-RUS, Annemieke et al., "194th ENMC international workshop. 3rd ENMC workshop on exon skipping: Towards clinical application of antisense-mediated exon skipping for Duchenne muscular dystrophy 8-10 December 2012, Naarden, The Netherlands," Neuromuscular Disorders, Vol. 23:934-944 (2013)
15	AARTSMA-RUS, Annemieke et al., "Antisense-Induced Multiexon Skipping for Duchenne Muscular Dystrophy Makes More Sense," Am. J. Hum. Genet., Vol. 74:83-92 (2004)
16	AARTSMA-RUS, Annemieke et al., "Functional Analysis of 114 Exon-Internal AONs for Targeted DMD Exon Skipping: Indication for Steric Hindrance of SR Protein Binding Sites," Oligonucleotides, Vol. 15:284-297 (2005) (Exhibit Number 2016 filed in interferences 106008, 106013, 106007 on November 18, 2014)
17	AARTSMA-RUS, Annemieke et al., "Guidelines for Antisense Oligonucleotide Design and Insight Into Splice-modulating Mechanisms," Molecular Therapy, Vol. 17(3):548-553 (2009) (Exhibit Number 2014 filed in interferences 106008, 106013, 106007 on November 18, 2014)
18	AARTSMA-RUS, Annemieke et al., "Guidelines for Antisense Oligonucleotide Design and Insight Into Splice-modulating Mechanisms," Molecular Therapy, Vol. 17(3):548-553 (2009). Supplementary Table 1.
19	AARTSMA-RUS, Annemieke et al., "Targeted exon skipping as a potential gene correction therapy for Duchenne muscular dystrophy," Neuromuscular Disorders, Vol. 12:S71-S77 (2002)
20	AARTSMA-RUS, Annemieke et al., "Therapeutic antisense-induced exon skipping in cultured muscle cells from six different DMD patients," Human Molecular Genetics, Vol. 12(8):907-914 (2003)

Coop 1,21 av 01015 1111 Dog	sumont 40F 1 File	4 1 2/	10/22 Page 126 of 261 Page D	
Case 1:21-cv-01015-JLH Doo	Application Number #: 32035		18/23 Page 136 of 361 PageID 15/05172	
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(NOT TO SUBMISSION WHILE OF OF IC 1.00)	Examiner Name	Not Y	et Assianed	

Attorney Docket Number

AVN-008CN41

21	ABBS, Stephen et al., "A convenient multiplex PCR system for the detection of dystrophin gene deletions: a comparative analysis with cDNA hybridisation shows mistypings by both methods," J. Med. Genet., Vol. 28:304-311 (1991)
22	Abes, S. et al., "Efficient Splicing Correction by PNA Conjugation to an R6-Penetratin Delivery Peptide", Nucleic Acids Research Vol.35(13):4495-4502 (2007)
23	AGRAWAL, Sudhir et al., "GEM 91 - An Antisense Oligonucleotide Phosphorothioate as a Therapeutic Agent for AIDS," Antisense Research and Development, Vol. 2:261-266 (1992)
24	AGRAWAL, Sudhir et al., "Oligodeoxynucleoside phosphoramidates and phosphorothioates as inhibitors of human mmunodeficiency virus," Proc. Natl. Acad. Sci. USA, Vol. 85:7079-7083 (1988)
25	Ahmad A, et al., "Mdx mice inducibly expressing dystrophin provide insights into the potential of gene therapy for Duchenne muscular dystrophy," Hum Mol Genet 2000;9:2507-2515.
26	AKHTAR, Saghir et al., "Cellular uptake and intracellular fate of antisense oligonucleotides," Trends in Cell Biology, Vol. 2:139-144 (1992)
27	AKHTAR, Saghir, "Delivery Strategies for Antisense Oligonucleotide Therapeutics," CRC Press, Inc., Boca Raton, FL, 160 pages (1995)
28	Alignments of Dystrophin mRNA and Oligonucleotides, 6 pages, submitted to the Patent Trial and Appeal Board in nterference No. 106008, dated November 18, 2014 (Exhibit Number 1054 filed in interferences 106008, 106007 on November 18, 2014)
29	ALTER, Julia et al., "Systemic delivery of morpholino oligonucleotide restores dystrophin expression bodywide and mproves dystrophic pathology," Nature Medicine, Vol. 12(2):175-177 (2006)
30	Amendment under 37 CFR 1.312 for Application No. 14/248,279, 5 pages, dated September 19, 2014 (Exhibit Number 2053 filed in interferences 106008, 106013, 106007 on November 18, 2014)
31	Analysis of Second PCR Product by Gel Electrophoresis, Pages 1, Exhibit Number 1182 filed in Interferences 106,007 and 106,008 on February 16, 2015.

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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(Not for Submission under or or it issue	Examiner Name	Not Y	et Assigned	

32	ANDERSON, W. French, "Human Gene Therapy," Science, Vol. 256:808-813 (1992)
33	Annotated scenario introduced and referred to during March 12, 2015 deposition of Erik J. Sontheimer, Ph.D., (University of Western Australia Exhibit 2139, filed April 3, 2015 in Interferences 106007, 106008, and 106013, page 1.)
34	ANTHONY, Karen et al., "Dystrophin quantification: Biological and Translational Research Implications," Neurology, Vol. 83:1-8 (2014) (Exhibit Number 2028 filed in interferences 106008, 106013, 106007 on November 18, 2014)
35	AON PS1958 Mass Spectrometry Data, Pages 7, Exhibit Number 1146 filed in Interferences 106,007 and 106,008 on February 16, 2015.
36	AON PS1958 UPLC Data, Pages 2, Exhibit Number 1157 filed in Interferences 106,007 and 106,008 on February 16, 2015.
37	AON PS1959 Mass Spectrometry Data, Pages 5, Exhibit Number 1147 filed in Interferences 106,007 and 106,008 on February 16, 2015.
38	AON PS1959 UPLC Data, Pages 2, Exhibit Number 1158 filed in Interferences 106,007 and 106,008 on February 16, 2015.
39	AON PS1960 Mass Spectrometry Data, Pages 8, Exhibit Number 1148 filed in Interferences 106,007 and 106,008 on February 16, 2015.
40	AON PS1960 UPLC Data, Pages 2, Exhibit Number 1159 filed in Interferences 106,007 and 106,008 on February 16, 2015.
41	AON PS1961 Mass Spectrometry Data, Pages 5, Exhibit Number 1149 filed in Interferences 106,007 and 106,008 on February 16, 2015.
42	AON PS1961 UPLC Data, Pages 2, Exhibit Number 1160 filed in Interferences 106,007 and 106,008 on February 16, 2015.
41	AON PS1961 Mass Spectrometry Data, Pages 5, Exhibit Number 1149 filed in Interferences 106,007 and 106,008 on February 16, 2015. AON PS1961 UPLC Data, Pages 2, Exhibit Number 1160 filed in Interferences 106,007 and 106,008 on February 16,

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	43	AON PS1962 Mass Spectrometry Data, Pages 7, Exhibit Number 1150 filed in Interferences 106,007 and 106,008 on February 16, 2015.					
		AON PS1962 UPLC Data, Pages 2, Exhibit Number 1161 filed in Interferences 106,007 and 106,008 on February 16, 2015.					
		AON PS1963 Mass Spectrometry Data, Pages 10, Exhibit Number 1151 filed in Interferences 106,007 and 106,008 on February 16, 2015.					
	46	AON PS1963 UPLC Data, Pages 2, Exhibit Number 1162 filed in Interferences 106,007 and 106,008 on February 16, 2015.					
	47	AON PS1964 Mass Spectrometry Data, Pages 13, Exhibit Number 1152 filed in Interferences 106,007 and 106,008 on February 16, 2015.					
		AON PS1964 UPLC Data, Pages 2, Exhibit Number 1163 filed in Interferences 106,007 and 106,008 on February 16, 2015.					
	49	AON PS1965 Mass Spectrometry Data, Pages 9, Exhibit Number 1153 filed in Interferences 106,007 and 106,008 on February 16, 2015.					
	AON PS1965 UPLC Data, Pages 2, Exhibit Number 1164 filed in Interferences 106,007 and 106,008 on February 16, 2015.						
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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

X A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
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Application Number 15705172

Filing Date 2017-09-14

First Named Inventor Stephen Donald WILTON

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INFORMATION PLOOL COLLEGE	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(NOT TO SUBMISSION WHILE OF OF IC 1.00)	Examiner Name	Not Y	et Assigned

1	Hammond, Suzan M., et al., "Genetic therapies for RNA mis-splicing diseases," Cell, Vol.27, No. 5, pp. 196-205 (May, 2011), Exhibit Number 1113 filed in interferences 106,007 and 106,008 on February 17, 2015.
2	Hammond,Suzan M., et al., "PRO-051, an antisense oligonucleotide for the potential treatment of Duchenne muscular dystrophy," Curr. Opinion Mol. Therap., Vol. 12, No. 4, pp. 478-486 (2010), Exhibit Number 1121 filed in interferences 106,007 and 106,008 on February 13, 2015.
3	HARDING, PL et al., "The Influence of Antisense Oligonucleotide Length on Dystrophin Exon Skipping," Molecular Therapy, Vol. 15(1):157-166 (2007) (Exhibit Number 1030 filed in interferences 106008, 106007 on November 18, 2014)
4	Havenga et al., "Exploiting the Natural Diversity in Adenovirus Tropism for Therapy and Prevention of Disease," J. Virol., Vol. 76, No. 9, pp. 4612-4620 (May, 2002), Exhibit Number 1123 filed in interferences 106,007 and 106,008 on February 13, 2015.
5	HEASMAN, Janet, "Morpholino Oligos: Making Sense of Antisense?" Developmental Biology, Vol. 243:209-214 (2002)
6	HEEMSKERK, Hans A. et al., "In vivo comparison of 2'-O-methyl phosphorothioate and morpholino antisense pligonucleotides for Duchenne muscular dystrophy exon skipping," The Journal of Gene Medicine, Vol. 11:257-266 (2009) (Exhibit Number 2020 filed in interferences 106008, 106013, 106007 on November 18, 2014)
7	HEID, Christian A. et al., "Real Time Quantitative PCR," Genome Research, Vol. 6:986-994 (1996) (Exhibit Number 1061 filed in interferences 106008, 106007 on November 18, 2014)
8	HERSCHLAG, Daniel et al., "Contributions of 2'Hydroxyl Groups of the RNA Substrate to Binding and Catalysis by the Tetrahymena Ribozyme: An Energetic Picture of an Active Site Composed of RNA," Biochemistry, Vol. 32:8299-8311 (1993) (Exhibit Number 1031 filed in interferences 106008, 106007 on November 18, 2014)
9	Hoffman EP, et al., "Characterization of dystrophin in muscle-biopsy specimens from patients with Duchenne's or Becker's muscular dystrophy" N Engl J Med 1988;318:1363-68.
10	Hoffman EP, et al., "Restoring dystrophin expression in Duchenne muscular dystrophy muscle: Progress in exon skipping and stop codon read through," Am J Path 2011;179:12-22.
11	HUDZIAK, Robert M. et al., "Antiproliferative Effects of Steric Blocking Phosphorodiamidate Morpholino Antisense Agents Directed against c-myc," Antisense & Nucleic Acid Drug Development, Vol. 10:163-176 (2000) (Exhibit Number 1032 filed in interferences 106008, 106007 on November 18, 2014)

Coop 1,21 av 0101F 1LL Doc			110/22 Dogg 1/2 of 261 Dogg D
Case 1:21-cv-01015-JLH Doc	Application Number 455-1 File	u 12/	18 /23 Page 143 of 361 PageID 15705172
INFORMATION BIOOL COURS	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
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(NOT 101 Submission under 01 01 10 1.00)	Examiner Name	Not Y	et Assigned

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	12	HUSSEY, Nicole D. et al., "Analysis of five Duchenne muscular dystrophy exons and gender determination using conventional duplex polymerase chain reaction on single cells," Molecular Human Reproduction, Vol. 5(11):1089-1094 (1999)
	13	Interim Guidance on Patent Subject Matter Eligibility ("the December Guidance," 16 pages,(Exhibit Number 2119 filed in interferences 106,007 and 106,008 on February 17, 2015.
	14	International Patent Application No. PCT/AU2000/00693 ("Wraight"), published as WO 00/78341 on December 28, 2000, 201 pages, (Exhibit Number 2125 filed in interferences 106,007 and 106,008 on February 17, 2015.
	15	International Preliminary Report on Patentability and Written Opinion for Application No. PCT/US2009/061960, 8 pages, dated April 26, 2011
	16	International Preliminary Report on Patentability for Application No. PCT/AU2005/000943, 8 pages, dated December 28, 2006
	17	International Preliminary Report on Patentability, PCT/US2013/077216, dated June 23, 2015, pages 1-7.
	18	International Preliminary Report on Patentability, PCT/US2014/029610, dated July 1, 2015, pages 1-122.
	19	International Preliminary Report on Patentability, PCT/US2014/029689, dated September 15, 2015, pages 1-10.
	20	International Preliminary Report on Patentability, PCT/US2014/029766, dated September 15, 2015, pages 1-10.
	21	International Search Report and Written Opinion of the International Searching Authority issued in International Patent Application No. PCT/US2013/077216 dated dated March 27, 2014
	22	International Search Report and Written Opinion of the International Searching Authority issued in International Patent Application No. PCT/US2014/029610 dated September 18, 2014
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	23	International Search Report and Written Opinion of the International Searching Authority issued in International Patent Application No. PCT/US2014/029689, 8 pages, dated October 21, 2014
	24	International Search Report and Written Opinion of the International Searching Authority issued in International Patent Application No. PCT/US2014/029766 dated October 21, 2014
	25	International Search Report and Written Opinion, PCT/US2016/054534, dated January 17, 2017, 13 pages.
	26	International Search Report for Application No. PCT/AU2005/000943, 5 pages, dated October 20, 2005
	27	International Search Report for Application No. PCT/US01/14410, 5 pages, dated March 6, 2002
	28	International Search Report for Application No. PCT/US2009/061960, 5 pages, dated April 6, 2010
	29	Invitation to pay fees and Partial International Search Report issued by the International Search Authority in International Patent Application No. PCT/US2014/029689 dated July 29, 2014
	30	ISIS Pharmaceuticals website, 2 pages, http://www.isispharm.com/Pipeline/Therapeutic-Areas/Other.htm (2014) (Exhibit Number 2021 filed in interferences 106008, 106013, 106007 on November 18, 2014)
	31	IVERSEN, Patrick L. et al., "Efficacy of Antisense Morpholino Oligomer Targeted to c-myc in Prostate Cancer Kenograft Murine Model and a Phase I Safety Study in Humans," Clinical Cancer Research, Vol. 9:2510-2519 (2003)
	32	JARVER, Peter et al., "A Chemical View of Oligonucleotides for Exon Skipping and Related Drug Applications," Nucleic Acid Therapeutics, Vol. 24(1):37-47 (2014) (Exhibit Number 2061 filed in interferences 106008, 106013, 106007 on November 18, 2014)
	33	JASON, Tracey L.H. et al., "Toxicology of antisense therapeutics," Toxicology and Applied Pharmacology, Vol. 201:66-83 (2004) (Exhibit Number 2027 filed in interferences 106008, 106013, 106007 on November 18, 2014)

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INFORMATION BIOOL COURS	Filing Date		2017-09-14		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	First Named Inventor Stephe		hen Donald WILTON		
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(Not fo Attorney Docket Number AVN-008CN41 JEARAWIRIYAPAISARN, Natee et al., "Long-term improvement in mdx cardiomyopathy after therapy with peptide-34 conjugated morpholino oligomers," Cardiovascular Research, Vol. 85:444-453 (2010) JEARAWIRIYAPAISARN, Natee et al., "Sustained Dystrophin Expression Induced by Peptide-conjugated Morpholino 35 Oligomers in the Muscles of mdx Mice," Mol. Ther., Vol. 16(9):1624-1629 (2008) Jett Foundation Presentation by McSherry, C. "Patient and Caregiver-Reported Outcomes of Patients in Clinical Trials 36 of Eteplirsen for Treatment of Duchenne" at Peripheral and Central Nervous System Drugs Advisory Committee, April 25, 2016, 17 pages. Job Posting by Sarepta for "Scientist II, Muscle Biology" (2 pages), (Academisch Ziekenhuis Leiden Exhibit 1233, filed 37 April 3, 2015 in Interference 106007 and 106008). JONES, Simon S. et al., "The Protection of Uracil and Guanine Residues in Oligonucleotide Synthesis," Tetrahedron 38 etters, Vol. 22(47):4755-4758 (1981) (2007), KARLEN, Yann et al., "Statistical significance of quantitative PCR," BMC Bioinformatics, 8:131, 16 pages 39 Exhibit Number 1033 filed in interferences 106008, 106007 on November 18, 2014) KARRAS, James G. et al., "Detetion of Individual Exons and Induction of Soluble Murine Interleukin-5 Receptor-alpha Chain Expression through Antisense Oligonucleotide-Mediated Redirection of Pre-mRNA splicing," Molecular 40 Pharmacology, Vol. 58:380-387 (2000)

41

42

43

44

Development II, Page 48 (2012)

nterferences 106,007 and 106,008 on February 17, 2015.

3:918-928 (2009)

King et al., "A Dictionary of Genetics," Oxford University Press, 4th Ed. (1990), Exhibit Number 1189 filed in

53:219-228 (1988) (Exhibit Number 1010 filed in interferences 106008, 106007 on November 18, 2014)

KAYE. Ed. "Results of the Eteplirsen Phase 2b and Phase 2b Extension Study in Duchenne Muscular Dystrophy." 8th Annual Meeting of the Oligonucleotide Therapeutics Society, Session 9: Advances in Oligonucleotide Clinical

KINALI, Maria et al., "Local restoration of dystrophin expression with the morpholino oligomer AVI-4658 in Duchenne

muscular dystrophy; a single-blind, placebo-controlled, dose-escalation, proof-of-concept study," Lancet Neurol., Vol.

KOENIG, M. et al., "The Complete Sequence of Dystrophin Predicts a Rod-Shaped Cytoskeleton Protein," Cell, Vol.

STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) First Named Inventor Stephen Donald WILTON Art Unit 1674 Examiner Name Not Yet Assigned Attorney Docket Number AVN-008CN41	INFORMATION DISCLOSURE STATEMENT BY APPLICANT	tument 435-1 File Application Number Filing Date		18/23 Page 146 of 361 PageID 15/05172 2017-09-14		
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		Attorney Docket Numb	er	AVN-008CN41		

	45	KOENIG, M. et al., "The Molecular Basis for Duchenne versus Becker Muscular Dystrophy: Correlation of Severity with Type of Deletion," Am. J. Hum. Genet., Vol. 45:498-506 (1989) (Exhibit Number 1011 filed in interferences 106008, 106007 on November 18, 2014)						
	46	ohler M, et al., "Quality of life, physical disability and respiratory impairment in Duchenne muscular dystrophy," Am J espir Crit Care Med 2005;172:1032-6.						
	47	DLE et al. "Exon skipping therapy for Duchenne muscular dystrophy," Advanced Drug Delivery Reviews, vol. :104-107 (2015).						
	48	KOSHKIN, Alexei A. et al., "LNA (Locked Nucleic Acids): Synthesis of the Adenine, Cytosine, Guanine, 5-Methylcytosine, Thymine and Uracil Bicyclonucleoside Monomers, Oligomerisation, and Unprecedented Nucleic Acid Recognition," Tetrahedron, Vol. 54:3607–3630 (1998) (Exhibit Number 2007 filed in interferences 106008, 106013, 106007 on November 18, 2014)						
	Kurreck J., "Antisense Technologies: Improvement Through Novel Chemical Modifications", European Journal of Biochemistry, Vol.270(8):1628-1644 (2003)							
	Lab-on-a-Chip Data, Pages 28, Exhibit Number 1185 filed in Interferences 106,007 and 106,008 on February 16, 2015.							
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date		2017-09-14	
	First Named Inventor Steph		hen Donald WILTON	
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INFORMATION DISCLOSURE	First Named Inventor Stephe		en Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
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1		Sarepta Briefing Information for the April 25, 2016 Meeting of the Peripheral and Central Nervous System Drugs Advisory Committee, Eteplirsen Briefing Document, NDA 206488, 186 pages.	
2	<i>_</i>	Sarepta Presentation at Peripheral and Central Nervous System Drugs Advisory Committee, April 25, 2016, 133 pages	
3	3	Sarepta Press Release, Sarepta Issues Statement on Advisory Committee Outcome for Use of Eteplirsen in the Treatment of Duchenne Muscular Dystrophy, April 25, 2016, 2 pages	
4		Sarepta Therapeutics Press Release, dated January 12, 2015, Exhibit Number 1119 filed in interferences 106,007 and 106,008 on February 17, 2015.	
Ę	5	Sarepta Therapeutics, Advisory Committee Briefing Materials: Available for Public Release, "Peripheral and Central Nervous System Drugs Advisory Committee," Eteplirsen Briefing Document Addendum, NDA 206488, pages 1-9, dated January 22, 2016.	
6	6	Sarepta Therapeutics, Advisory Committee Briefing Materials: Available for Public Release, "Peripheral and Central Nervous System Drugs Advisory Committee," Eteptirsen Briefing Document, NDA 206488, pages 1-166, dated January 22, 2016.	
7	7	Sarepta Therapeutics, Inc. News Release, "Sarepta Therapeutics Announces FDA Accelerated Approval of EXONDYS 51™ (eteplirsen) injection, an Exon Skipping Therapy to Treat Duchenne Muscular Dystrophy (DMD) Patients Amenable to Skipping Exon 51," September 19, 2016, 2 pages.	
3	В	Sarepta, "AVI BioPharma Initiates Dosing in Phase 2 Study of Eteplirsen in Duchenne Muscular Dystrophy Patients," press release, 4 pages, dated August 15, 2011 (Exhibit Number 2082 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
Ş	9	Sarepta, "Sarepta Therapeutics Announces Eteplirsen Demonstrates Continued Stability on Walking Test through 120 Weeks in Phase lib Study in Duchenne Muscular Dystrophy," press release, 3 pages, dated January 15, 2014 (Exhibit Number 2034 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
1	10	Sarepta, "Sarepta Therapeutics Reports Long-Term Outcomes through 144 Weeks from Phase IIb Study of Eteplirsen in Duchenne Muscular Dystrophy," press release, http://investorrelations.sarepta.com/phoenix.zhtml?c=64231& p=irol-newsArticle&id=1946426, 4 pages, dated July 10, 2014	
1	11	Scully, Michele et al., "Review of Phase II and Phase III Clinical Trials for Duchenne Muscular Dystrophy", Expert Opinion on Orphan Drugs, Vol.1(1):33-46 (2013)	

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12	Second Preliminary Amendment filed in US Application No. 13/550,210, 5 pages, dated January 3, 2013 (Exhibit Number 2062 filed in interferences 106008, 106013, 106007 on November 18, 2014)
13	Second Written Opinion for Application No. PCT/AU2010/001520, 7 pages, dated October 13, 2011
14	Semi Quantitative Lab-on-Chip Analysis of Second PCR Product, Pages 1, Exhibit Number 1183 filed in Interferences 106,007 and 106,008 on February 16, 2015.
15	Sequence Listing - Serial No. 13/550,210, as filed July 16, 2012 (9 pages), Exhibit Number 1205 filed in Interferences 106,007 and 106,008 on February 17, 2015.
16	Sequence of Exon 46 of Dystrophin Gene, 1 page
17	Sequence of Exon 51 of Dystrophin Gene, 1 page
18	Shabanpoor et al., "Bi-specific splice-switching PMO oligonucleotides conjugated via a single peptide active in a mouse model of Duchenne muscular dystrophy," Nucleic Acids Res., pp. 1-11 (December, 2014), Exhibit Number 1114 filed in interferences 106,007 and 106,008 on February 17, 2015.
19	SHAPIRO, Marvin B. et al., "RNA splice junctions of different classes of eukaryotes: sequence statistics and functional implications in gene expression," Nucleic Acids Research, Vol. 15(17):7155-7174 (1987)
20	SHERRATT, Tim G. et al., "Exon Skipping and Translation in Patients with Frameshift Deletions in the Dystrophin Gene," Am. J. Hum. Genet., Vol. 53:1007-1015 (1993)
21	SHIGA, Nobuyuki et al., "Disruption of the Splicing Enhancer Sequence within Exon 27 of the Dystrophin Gene by a Nonsense Mutation Induced Partial Skipping of the Exon and Is Responsible for Becker Muscular Dystrophy," J. Clin. Invest., Vol. 100(9):2204-2210 (1997)
22	SHIMIZU, Miho et al., "Oligo(2'-O-methyl)ribonucleotides Effective probes for duplex DNA," FEBS Letters, Vol. 302 (2):155-158 (1992) (Exhibit Number 1035 filed in interferences 106008, 106007 on November 18, 2014)

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INFORMATION DIGGL COURS	Filing Date		2017-09-14		
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2	Siemens Healthcare Diagnostics, Inc. v. Enzo Life Sciences, Inc., 2013 WL 4411227, *11 [Parallel cite: U.S.D.C., D. Mass., Civil No. 10-40124-FDS], Decided Aug. 14, 2013 (12 pages); [Cited as: 2013 WL 4411227], Exhibit Number 1210 filed in Interferences 106,007 and 106,008 on February 17, 2015.
2	SIERAKOWSKA, Halina et al., "Repair of thalassemic human beta-globin mRNA in mammalian cells by antisense bligonucleotides," Proc. Natl. Acad. Sci. USA, Vol. 93:12840-12844 (1996)
2	Sontheimer et al., "Metal ion catalysis during group II intron self-splicing: parallels with the spliceosome," Genes & Development, Vol. 13, pp. 1729-1741 (1999), Exhibit Number 1195 filed in Interferences 106,007 and 106,008 on February 17, 2015.
2	Sontheimer et al., "Three Novel Functional Variants of Human U5 Small Nuclear RNA," Vol. 12, No. 2, pp. 734-746 (Feb., 1992), Exhibit Number 1194 filed in Interferences 106,007 and 106,008 on February 17, 2015.
2	SONTHEIMER, Erik J. et al., "Metal ion catalysis during splicing of premessenger RNA," Nature, Vol. 388:801-805 (1997) (Exhibit Number 1036 filed in interferences 106008, 106007 on November 18, 2014)
2	SONTHEIMER, Erik J. et al., "The U5 and U6 Small Nuclear RNAs as Active Site Components of the Spliceosome," Science, Vol. 262:1989-1997 (1993) (Exhibit Number 1058 filed in interferences 106008, 106007 on November 18, 2014)
2	Standard Operating Procedure FPLC Desalting, Pages 6, Exhibit Number 1144 filed in Interferences 106,007 and 106,008 on February 16, 2015.
3	Stanton, Robert et al., "Chemical Modification Study of Antisense Gapmers", Nucleic Acid Therapeutics, Vol. 22(5): 344-359 (2012)
3	Statement On A Nonproprietary Name Adopted By the USAN Council, ETEPLIRSEN, Chemical Structure, 2010, pages 1-5.
3	STEIN, CA, "Delivery of antisense oligonucleotides to cells: a consideration of some of the barriers," Monographic supplement series: Oligos & Peptides - Chimica Oggi - Chemistry Today, Vol. 32(2):4-7 (2014) (Exhibit Number 2022 filed in interferences 106008, 106013, 106007 on November 18, 2014)
3	STEIN, Cy A. et al., "Therapeutic Oligonucleotides: The Road Not Taken," Clin. Cancer Res., Vol. 17(20):6369-6372 (2011) (Exhibit Number 2026 filed in interferences 106008, 106013, 106007 on November 18, 2014)

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Case 1:21-cv-01015-JLH Doc	Application Number 2	u 12/	15/05/172 Page 153 01 301 PageID		
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674		
(NOT TO SUBMISSION WHILE OF OF IC 1.33)	Examiner Name	Not Y	et Assigned		

STAT (Not for Attorney Docket Number AVN-008CN41

34	STEIN, David et al., "A Specificity Comparison of Four Antisense Types: Morpholino, 2'-O-Methyl RNA, DNA, and PHosphorothioate DNA," Antisense & Nucleic Acid Drug Development, Vol. 7:151-157 (1997)	
35	Strober JB, "Therapeutics in Duchenne muscular dystrophy," NeuroRX 2006; 3:225-34.	
36	Summary of Professional Experience (Dr. Erik J. Sontheimer), Pages 4, Exhibit Number 1223 filed in Interferences 106,007 and 106,008 on February 17, 2015.	
37	SUMMERTON, James et al., "Morpholino and Phosphorothioate Antisense Oligomers Compared in Cell-Free and In-Cell Systems," Antisense & Nucleic Acid Drug Development, Vol. 7:63-70 (1997)	
38	SUMMERTON, James et al., "Morpholino Antisense Oligomers: Design, Preparation, and Properties," Antisense & Nucleic Acid Drug Development, Vol. 7:187-195 (1997)	
39	SUMMERTON, James, "Morpholino antisense oligomers: the case for an Rnase H-independent structural type," Biochimica et Biophysica Acta, Vol. 1489:141-158 (1999) (Exhibit Number 1038 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
40	Supplementary European Search Report for Application No. 10829367.1, 8 pages, dated May 22, 2013	
41	Suter et al., "Double-target antisense U7 snRNAs promote efficient skipping of an aberrant exon in three human Beta- thalassemic mutations," 8:13 HUMAN MOLECULAR GENETICS 2415-2423 (1999) (Exhibit Number 1083 filed in interferences 106008, 106007 on December 23, 2014)	
42	T HOEN, Peter A.C. et al., "Generation and Characterization of Transgenic Mice with the Full-length Human DMD Gene," The Journal of Biological Chemistry, Vol. 283(9):5899-5907 (2008) Exhibit Number 2030 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
43	Table 1: Primer and Product Details for Exon 51 and 53 Reports on AONs of 20 to 50 Nucleotides dd 07 JAN 2015, Pages 1, Exhibit Number 1177 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
44	Takeshima et al., "Oligonucleotides against a splicing enhancer sequence led to dystrophin production in muscle cells from a Duchenne muscular dystrophy patient," Brain & Dev., Vol. 23, pp. 788-790 (2001), Exhibit Number 1196 filed in Interferences 106,007 and 106,008 on February 17, 2015.	

	cument 435-1 File Application Nymber ₃ Filing Date	:u 12/	18/23 Page 154 of 361 PageID 15/05172 2017-09-14	
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	Attorney Docket Numb	er	AVN-008CN41	

	45	TAKESHIMA, Yasuhiro et al., "Modulation of In Vitro Splicing of the Upstream Intron by Modifying an Intra-Exon Sequence Which Is Deleted from the Dystrophin Gene in Dystrophin Kobe," J. Clin. Invest., Vol. 95:515-520 (1995)									
	46		TANAKA, Kenji et al., "Polypurine Sequences within a Downstream Exon Function as a Splicing Enhancer," Molecular and Cellular Biology, Vol. 14(2):1347-1354 (1994)								
	47		Telios Pharms., Inc. v. Merck KgaA, No. 96-1307, 1998 WL 35272018 (S.D. Cal. Nov. 18, 1998), 11 pages (Exhibit Number 2153 filed in interference 106013 on October 29, 2015)								
	48	THANH, Le Htiet et al., "Characterization of Revertant Muscle Fibers in Duchenne Muscular Dystrophy, Using Exon- Specific Monoclonal Antibodies against Dystrophin," Am. J. Hum. Genet., Vol. 56:725-731 (1995)									
	49	The Regents of the University of California v. Dako North America, Inc., U.S.D.C., N.D. California, No. C05-03955 MHP, April 22, 2009 (2009 WL 1083446 (N.D.Cal.), Exhibit Number 1206 filed in Interferences 106,007 and 106,008 on February 17, 2015.									
	50	TIAN, Xiaobing et al., "Imaging Oncogene Expression," Ann. N.Y. Acad. Sci., Vol. 1002:165-188 (2003) (Exhibit Number 2029 filed in interferences 106008, 106013, 106007 on November 18, 2014)									
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That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674				
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1	Excerpts of SEC Form 8-K, dated November 23 2014, for BioMarin Pharmaceutical Inc., (University of Western Australia Exhibit 2129, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-9).
2	Exon 46 Sequence of Dystrophin, Document D18 as filed in Opposition of European Patent EP1619249, filed June 23, 2009, 1 page
3	Exon 51 Internal Sequence Schematic, Pages 1, Exhibit Number 1224 filed in Interferences 106,007 and 106,008 on February 17, 2015.
4	Exon 53 Internal Sequence Schematic, Pages 1, Exhibit Number 1225 filed in Interferences 106,007 and 106,008 on February 17, 2015.
5	Extended European Search Report, EP 15190341.6, dated April 28, 2016, 9 pages.
6	Fairclough et al., "Therapy for Duchenne muscular dystrophy: renewed optimism from genetic approaches," Nature Reviews, Vol. 14, pp. 373-378 (June, 2013), Exhibit Number 1112 filed in interferences 106,007 and 106,008 on February 17, 2015.
7	FALL, Abbie M. et al., "Induction of revertant fibres in the mdx mouse using antisense oligonucleotides," Genetics Vaccines and Therapy, Vol. 4:3, doi:10.1186/1479-0556-4-3, 12 pages (2006)
8	FDA Briefing Document, "Peripheral and Central Nervous System," Drugs Advisory Committee Meeting, NDA 206488 Eteplirsen, Food and Drug Administration, pages 1-73, January 22, 2016.
9	FDA Briefing Information for the April 25, 2016 Meeting of the Peripheral and Central Nervous System Drugs Advisory Committee, Eteplirsen, NDA 206488, 115 pages
10	FDA News Release, "FDA grants accelerated approval to first drug for Duchenne muscular dystrophy," September 19, 2016, 3 pages.
11	Federal Register, Vol. 58, No. 183, pp. 49432-49434, September 23, 1993 (6 pages); [Cited as: 58 FR 49432-01, 1993 WL 371451 (F.R.)], Exhibit Number 1221 filed in Interferences 106,007 and 106,008 on February 17, 2015.
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Case 1:21-cv-01015-JLH Doc	Application Number	u 12/	18/23 Page 159 of 361 PageID 15705172				
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Federal Register, Vol. 69, No. 155, pp. 49960-50020 dated August 12, 2004 (62 pages), Exhibit Number 1220 filed in 12 nterferences 106,007 and 106,008 on February 17, 2015. "EENER, C. et al., "Alternative splicing of human dystrophin mRNA generates isoforms at the carboxy terminus, 13 Nature, vol. 338:509 - 511 (1989). File Excerpt from AZL U.S. Patent Application 11/233,495: Amendment After Non-Final Office Action, as-filed 14 November 1, 2010 (Exhibit Number 1085 filed in interferences 106008, 106007 on December 23, 2014) File Excerpt from AZL U.S. Patent Application 11/233,495: Claims examined in Non-Final Office Action, dated 15 December 1, 2008 (Exhibit Number 1079 filed in interferences 106008, 106007 on December 23, 2014) File Excerpt from AZL U.S. Patent Application 11/233,495: Final Office Action dated August 31, 2010 (Exhibit Number 16 1086 filed in interferences 106008, 106007 on December 23, 2014) File Excerpt from U.S. Patent Application 11/233,495: Non-Final Office Action dated December 1, 2008 and Final 17 Office Action dated June 25, 2009 (Exhibit Number 1078 filed in interferences 106008, 106007 on December 23, 2014) File Excerpt from U.S. Patent Application No. 12/198,007: AZL's Preliminary Amendment and Response, as-filed 18 November 7, 2008 (Exhibit Number 1075 filed in interferences 106008, 106007 on December 23, 2014) File Excerpt from U.S. Patent Application No. 12/976,381: AZL's First Preliminary Amendment, as-filed December 22, 19 2010 (Exhibit Number 1076 filed in interferences 106008, 106007 on December 23, 2014) File Excerpts from Prosecution History of U.S. Patent Application No. 13/270,992 ("UWA's U.S. Patent 8,486,907), 20 Pages 122, Exhibit Number 1006 filed in Interference 106,013 on February 17, 2015. File Excerpts from U.S. Patent Application No. 11/233,495: Response to Non- Final Office Action, as filed July 26, 21 2011 (14 pages), Exhibit Number 1222 filed in Interferences 106,007 and 106,008 on February 17, 2015. File Excerpts from U.S. Patent Application No. 13/270,992 ("UWA's U.S. Patent 8,486,907): NFOA, dated 7/30/2012; Applicant-Initiated Interview Summary, dated 11/8/2012; Amendment, as filed January 30, 2013; NOA, dated 4/4/2013, 22 Exhibit Number 1118 (122 pages) filed in interferences 106,007 and 106,008 on February 17, 2015.

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Case 1:21-cv-01015-JLH Doc	Application Number 9	u 12/	18/23 Page 160 of 361 PageID 15/05172				
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(Not lot submission under or or it iso)	Examiner Name	Not Y	et Assianed				

Attorney Docket Number

AVN-008CN41

Flanagan, W. Michael, et al., "A cytosine analog that confers enhanced potency to antisense oligonucleotides," Proc. Nat'l Acad. Sci. USA, Vol. 96, pp. 3513-3518 (March, 1999), Exhibit Number 1211 filed in Interferences 106,007 and 106,008 on February 17, 2015.
Flanigan et al. (2003) "Rapid Direct Sequence Analysis of the Dystrophin Gene," Am. J. Hum. Genet. 72:931-939, dated February 17, 2015 (Exhibit Number 2120 filed in interferences 106,007 and 106,008 on February 17, 2015.
FLANIGAN, Kevin M. et al., "Pharmacokinetics and safety of single doses of drisapersen in non-ambulant subjects with Duchenne muscular dystrophy: Results of a double-blind randomized clinical trial," Neuromuscular Disorders, Vol. 24:16-24 (2014) (Exhibit Number 2038 filed in interferences 106008, 106013, 106007 on November 18, 2014)
Fletcher S., et al, "Morpholino oligomer-mediated exon skipping averts the onset of dystrophic pathology in the mdx mouse. Mol Ther 2007;15:1587-1592.
FLETCHER, Sue et al., "Dystrophin Isoform Induction In Vivo by Antisense-mediated Alternative Splicing," Molecular Therapy, Vol. 18(6):1218-1223 (2010)
FLETCHER, Sue et al., "Targeted Exon Skipping to Address 'Leaky' Mutations in the Dystrophin Gene," Molecular Therapy-Nucleic Acids, Vol. 1, e48, doi:10.1038/mtna.2012.40, 11 pages (2012)
FLETCHER, Susan et al., "Dystrophin expression in the mdx mouse after localised and systemic administration of a morpholino antisense oligonucleotide," J. Gene Med., Vol. 8:207-216 (2006)
FLETCHER, Susan et al., "Gene therapy and molecular approaches to the treatment of hereditary muscular disorders," Curr. Opin. Neurol., Vol. 13:553-560 (2000)
FOSTER, Helen et al., "Genetic Therapeutic Approaches for Duchenne Muscular Dystrophy," Human Gene Therapy, Vol. 23:676-687 (2012)
Fourth Declaration of Erik Sontheimer, Ph.D. (Pursuant to Bd.R. 41.155(b)(2) and SO 155.1.3 and 155.1.4), dated March 9, 2015, (University of Western Australia Exhibit 2138, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-4).
FRAGALL, Clayton T. et al., "Mismatched single stranded antisense oligonucleotides can induce efficient dystrophin splice switching," BMC Medical Genetics, Vol. 12:141, 8 pages (2011) (Exhibit Number 2019 filed in interferences 106008, 106013, 106007 on November 18, 2014)

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Case 1:21-cv-01015-JLH Doo	Application Number	u 1 <i>21</i>	18/23 Page 161 of 361 PageID 15/05172					
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674					
(NOT TO SUBMISSION WHILE OF OF IC 1.00)	Examiner Name	Not Y	et Assigned					

34	FRALEY, Robert et al., "New generation of liposomes: the engineering of an efficient vehicle for intracellular delivery of nucleic acids," Trends Biochem., Vol. 6:77-80 (1981)
35	FRAZIER, Kendall S. et al., "Species-specific Inflammatory Responses as a Primary Component for the Development of Glomerular Lesions in Mice and Monkeys Following Chronic Administration of a Second-generation Antisense Oligonucleotide," Toxicologica Pathology, 13 pages (2013)
36	FRIEDMANN, Theodore, "Progress Toward Human Gene Therapy," Science, Vol. 244(4910):1275-1281 (1989)
37	GEBSKI, Bianca L. et al., "Morpholino antisense oligonucleotide induced dystrophin exon 23 skipping in mdx mouse muscle," Human Molecular Genetics, Vol. 12(15):1801-1811 (2003)
38	GenBank AF213437.1 Dated January 17, 2002
39	Seneric Method for Average Mass Determination Using LC-UV-MS in the Negative Mode, Pages 15, Exhibit Number 1145 filed in Interferences 106,007 and 106,008 on February 16, 2015.
40	Generic UPLC Purity Method for Oligonucleotides (19- to 25-mers), Pages 18, Exhibit Number 1156 filed in Interferences 106,007 and 106,008 on February 16, 2015.
41	GENNARO, Alfonso R., (ed.), Remington's Pharmaceutical Sciences, 18th Edition, Mack Publishing, Co., Easton PA, 2020 pages (1990)
42	GILES, Richard V. et al., "Antisense Morpholino Oligonucleotide Analog Induces Missplicing of C-myc mRNA," Antisense & Nucleic Acid Drug Development, Vol. 9:213-220 (1999)
43	GlaxoSmithKline Press Release, Issued in London, UK, dated June 27, 2013 (5 pages), Exhibit Number 1202 filed in Interferences 106,007 and 106,008 on February 17, 2015.
44	GlaxoSmithKline, "GSK and Prosensa announce start of Phase III study of investigational Duchenne Muscular Dystrophy medication," press release, 6 pages, dated January 19, 2011 (Exhibit Number 2060 filed in interferences 106008, 106013, 106007 on November 18, 2014)

	Application Nymber File Filing Date		/ 18/23 Page 162 of 361 PageID 15/05172 2017-09-14			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	First Named Inventor	Steph	hen Donald WILTON			
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(Not for submission under 37 Of R 1.33)	Examiner Name	Not Y	et Assigned			
	Attorney Docket Numb	er	AVN-008CN41			

	45	GlaxoSmithKline, "Prosensa regains rights to drisapersen from GSK and retains rights to all other programmes for the reatment of Duchenne muscular dystrophy (DMD), press release, 4 pages, dated January 13, 2014 (Exhibit 2040 in Interferences 106007, 106008, and 106013 on November 18, 2014).
	46	GOEMANS, Nathalie M. et al., "Systemic Administration of PRO051 in Duchenne's Muscular Dystrophy," The New England Journal of Medicine, Vol. 364:1513-1522 (2011) (Exhibit Number 2036 filed in interferences 106008, 106013, 106007 on November 18, 2014)
	47	Gordon et al., "Kinetic Characterization of the Second Step of Group II Intron Splicing: Role of Metal Ions and the Cleavage Site 2'-OH in Catalysis," Biochemistry, Vol. 39, pp. 12939-12952 (2000), Exhibit Number 1188 filed in Interferences 106,007 and 106,008 on February 17, 2015.
	48	GORDON, Peter M. et al., "Metal ion catalysis during the exon-ligation step of nuclear pre-mRNA splicing: Extending the parallels between the spliceosome and group II introns," RNA, Vol. 6:199-205 (2000) (Exhibit Number 1055 filed in nterferences 106008, 106007 on November 18, 2014)
	49	GOYENVALLE, Aurelie et al., "Prevention of Dystrophic Pathology in Severely Affected Dystrophin/Utrophin-deficient Mice by Morpholino-oligomer-mediated Exon-skipping," Molecular Therapy, Vol. 18(1):198-205 (2010)
	50	HAMMOND, Suzan M. et al., "Correlating In Vitro Splice Switching Activity With Systemic In Vivo Delivery Using Novel ZEN-modified Oligonucleotides," Molecular Therapy - Nucleic Acids, Vol. 3:1, 11 pages (2014) (Exhibit Number 2011 filed in interferences 106008, 106013, 106007 on November 18, 2014)
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INFORMATION BIOOL COURS	Filing Date		2017-09-14				
INFORMATION DISCLOSURE	First Named Inventor	st Named Inventor Stephen Donald WILTON					
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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

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Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
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1	MITRPANT, Chalermchai et al., "Rational Design of Antisense Oligomers to Induce Dystrophin Exon Skipping," Molecular Therapy, Vol. 17(8):1418-1426 (2009)
2	MONACO, Anthony P. et al., "An Explanation for the Phenotypic Differences between Patients Bearing Partial Deletions of the DMD Locus," Genomics, Vol. 2:90-95 (1988)
3	Morcos, Paul A., "Gene switching: analyzing a broad range of mutations using steric block antisense oligonucleotides," Methods in Enzymology, Vol. 313:174-189 (1999)
4	MOULTON, H.M., "Compound and Method for Treating Myotonic Dystrophy," U.S. Application No. 12/493,140, 82 pages, filed June 26, 2009
5	MOULTON, Hong M. et al., "Morpholinos and their peptide conjugates: Therapeutic promise and challenge for Duchenne muscular dystrophy," Biochimica et Biophysica Acta, Vol. 1798:2296-2303 (2010)
6	Muntoni F, et al., "Dystrophin and mutations: one gene, several proteins, multiple phenotypes," Lancet Neurol. 2003;2:731-40.
7	MUNTONI, Francesco et al., "128th ENMC International Workshop on 'Preclinical optimization and Phase I/II Clinical Trials Using Antisense Oligonucleotides in Duchenne Muscular Dystrophy' 22-24 October 2004, Naarden, The Netherlands," Neuromuscular Disorders, Vol. 15:450-457 (2005) (Exhibit Number 2025 filed in interferences 106008, 106013, 106007 on November 18, 2014)
8	MUNTONI, Francesco et al., "149th ENMC International Workshop and 1st TREAT-NMD Workshop on: 'Planning Phase I/II Clinical trials using Systemically Delivered Antisense Oligonucleotides in Duchenne Muscular Dystrophy," Neuromuscular Disorders, Vol. 18:268-275 (2008)
9	Confirmatory Study of Eteplirsen in DMD Patients, An Open-Label, Multi-Center, 48-Week Study With a Concurrent Untreated Control Arm to Evaluate the Efficacy and Safety of Eteplirsen in Duchenne Muscular Dystrophy, Clinical Trials.gov, Clinical Trial Identifier NCT02255552, May 26, 2015, 3 pages.
10	NELSON, David L. et al., "Nucleotides and Nucleic Acids," Lehninger Principles of Biochemistry, 3rd Edition, Chapter 10, pages 325-328 and glossary page G-11, Worth Publishers, New York (2000)
11	Nguyen TM, et. Al., "Use of Epitope libraries to identify exon-specific monoclonal antibodies for characterization of altered dystrophins in muscular dystrophy," Am J Hum Genet 1993;52:1057-66.

Coop 1,21 av 0101F 1LL Doc	sumont 40F 1 File	4 1 2 /	110/22 Dogg 167 of 261 Dogg D	
Case 1:21-cv-01015-JLH Doc	Application Number #. 32006		/18/23 Page 167 of 361 PageID 15705172	
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(NOT 101 Submission under 01 01 10 1.00)	Examiner Name	Not Y	et Assigned	

12	Oberbauer, "Renal uptake of an 18-mer phosphorothioate oligonucleotide," Kidney Int'l, Vol. 48, pp. 1226-1232 (1995), Exhibit Number 1191 filed in Interferences 106,007 and 106,008 on February 17, 2015.
13	Oligonucleotide Cleavage and Deprotection Laboratory Notebook Entry, Pages 1, Exhibit Number 1138 filed in Interferences 106,007 and 106,008 on February 16, 2015.
14	Oligonucleotide diagrams, 5 pages (Exhibit Number 1053 filed in interferences 106008, 106007 on November 18, 2014)
15	Partial European Search Report for Application No. 10004274.6, 6 pages, dated October 2, 2012
16	Partial European Search Report for Application No. 12162995.0, 6 pages, dated October 2, 2012
17	Patentee's Response to European Patent Application No. 05076770.6, dated July 28, 2006, 4 pages
18	Patrick O. Brown and Tidear D. Shalon v. Stephen P.A. Fodor, Dennis W. Solas and William J. Dower: Interference Merits Panel, Interference No. 104,358, 24 pages, dated August 9, 1999 (Exhibit Number 2113 filed in interferences 106008, 106013, 106007 on November 18, 2014)
19	PCT Application as-filed for application No. PCT/NL03/00214, 64 pages, dated September 21, 2005 (Exhibit Number 2042 filed in interferences 106008, 106013, 106007 on November 18, 2014)
20	PD-10 Desalting Columns, Pages 12, Exhibit Number 1141 filed in Interferences 106,007 and 106,008 on February 16, 2015.
21	Popplewell, et al., Design of Phosphorodiamidate Morpholino Oligomers (PMOs) For the Induction of Exon Skipping of the Human DMD Gene, DSGT Poster, 2008, 1 page.
22	POPPLEWELL, Linda et al., "Design of phosphorodiamidate morpholino oligmers (PMOs) for the induction of exon skipping of the human DMD gene," Human Gene Therapy 19(10): ESGCT 2008 Poster Presentations, Page 1174, Poster No. P203

Coop 1,21 av 0101F 1LL Doc			110/22 Dogg 160 of 261 Dogg ID	
Case 1:21-cv-01015-JLH Doc	Application Number 7	u 12/	18/23 Page 168 of 361 PageID 15/05172	
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23	POPPLEWELL, Linda J. et al., "Comparative analysis of antisense oligonucleotide sequences targeting exon 53 of the numan DMD gene: Implications for future clinical trials," Neuromuscular Disorders, Vol. 20(2):102-110 (2010) 9 pages (Exhibit Number 2031 filed in interferences 106008, 106013, 106007 on November 18, 2014)
24	POPPLEWELL, Linda J. et al., "Design of Antisense Oligonucleotides for Exon Skipping of the Human Dystrophin Gene," Human Gene Therapy 19(4): BSGT 2008 Poster Presentation, Page 407, Poster No. P-35
25	POPPLEWELL, Linda J. et al., "Design of Phosphorodiamidate Morpholino Oligomers (PMOs) for the Induction of Exon Skipping of the Human DMD Gene," Molecular Therapy, Vol. 17(3):554-561 (2009)
26	POPPLEWELL, Linda J. et al., "Targeted Skipping of Exon 53 of the Human DMD Gene Recommendation of the Highly Efficient Antisense Oligonucleotide for Clinical Trial," Human Gene Therapy 20(4): BSGT 2009 Poster Presentations, Page 399, Poster No. P10
27	Poster Abstract Listing for The Tenth Annual Meeting of the RNA Society, held at the Banff Centre for Conferences, in Banff, Alberta, Canada, from May 24-29, 2005, (University of Western Australia Exhibit 2137, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-11).
28	Pramono, "Induction of Exon Skipping of the Dystrophin Transcript in Lymphoblastoid Cells by Transfecting an Antisense Oligodeoxynucleotide Complementary to an Exon Recognition Sequence," Biochem. and Biophy. Res. Comm., Vol. 226, pp. 445-449 (1996), Exhibit Number 1192 filed in Interferences 106,007 and 106,008 on February 17, 2015.
29	Preliminary Amendment for Application No. 12/976,381, 4 pages, dated December 22, 2010 (Exhibit Number 2066 filed in interferences 106008, 106013, 106007 on November 18, 2014)
30	Preliminary Amendment for Application No. 12/198,007, 3 pages, dated November 7, 2008 (Exhibit Number 2067 filed in interferences 106008, 106013, 106007 on November 18, 2014)
31	Prescribing Information for EXONDYS 51 (eteplirsen) Injection, dated 09/2016, 10 pages
32	Program Schedule for The Tenth Annual Meeting of the RNA Society, held at the Banff Centre for Conferences, in Banff, Alberta, Canada, from May 24-29, 2005, (University of Western Australia Exhibit 2136, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-4).
33	Proliferation and Differentiation of Myoblast Cultures, Pages 2, Exhibit Number 1169 filed in Interferences 106,007 and 106,008 on February 16, 2015.

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Attorney Docket Number

AVN-008CN41

34	Prosensa Press Release, dated October 10, 2014 (2 pages), Exhibit Number 1203 filed in Interferences 106,007 and 106,008 on February 17, 2015.
35	Prosensa, "GSK and Prosensa Announce Primary Endpoint Not Met in Phase III Study of Drisapersen in Patients With Duchenne Muscular Dystrophy," press release, 4 pages, dated September 20, 2013 (Exhibit Number 2039 filed in Interferences 106008, 106013, 106007 on November 18, 2014)
36	Raz et al. v. Davis et al., Board of Patent Appeals and Inteferences, Patent and Trademark Office, Int. No. 105,712, Tech. Ctr. 1600, September 29, 2011 (24 pages) (2011 WL 4568986 (Bd.Pat.App. & Interf.), Exhibit Number 1209 filed in Interferences 106,007 and 106,008 on February 17, 2015.
37	REESE, Colin B. et al., "Reaction Between 1-Arenesulphonyl-3-Nitro-1,2,4-Triazoles and Nucleoside Base Residues. Elucidation of the Nature of Side-Reactions During Oligonucleotide Synthesis," Tetrahedron Letters, Vol. 21:2265-2268 (1980)
38	REESE, Colin B. et al., "The Protection of Thymine and Guanine Residues in Oligodeoxyribonucleotide Synthesis," J. Chem. Soc. Perkin Trans. 1, pages 1263-1271 (1984)
39	Reexamination Certificate - Application No. 90/011,320, issued March 27, 2012 (Exhibit Number 1072 filed in Interferences 106008, 106007 on December 23, 2014)
40	Reply to EPO Communication dated June 26, 2014 in European Application Serial No. 13160338, (University of Western Australia Exhibit 2145, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-4).
41	Reply to EPO Communication dated October 21, 2014 in European Application Serial No. 12198517, (University of Western Australia Exhibit 2148, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-7).
42	Reply to EPO Communication dated October 23, 2014 in European Application Serial No. 12198485, (University of Western Australia Exhibit 2147, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-8).
43	Response to Office Action and Amendments to the Claims for Application No. 13/550,210, 10 pages, dated May 12, 2014 (Exhibit Number 2064 filed in interferences 106008, 106013, 106007 on November 18, 2014)
44	Rhodes et al., "BioMarin Bulks Up," BioCentury, pp. 6-8 (December, 2014), Exhibit Number 1193 filed in Interferences 106,007 and 106,008 on February 17, 2015.

Case 1:21-cv-01015-JLH Do	tument 435-1 Filed 12/1 Application Number		18/23 Page 170 of 361 PageID	
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	45	RNA Isolation Using RNA-BEE, Pages 1, Exhibit Number 1175 filed in Interferences 106,007 and 106,008 on February 16, 2015.									
	46	ROBERTS, Roland G. et al., "Exon Structure of the Human Dystrophin Gene," Genomics, Vol. 16:536-538 (1993)									
	47	Roest et al., "Application of In Vitro Myo-Differentiation of Non-Muscle Cells to Enhance Gene Expression and Facilitate Analysis of Muscle Proteins," Neuromuscul. Disord., Vol. 6, No. 3, pp. 195-202 (May, 1996), Exhibit Number 1124 filed in interferences 106,007 and 106,008 on February 17, 2015.									
	48	ROSSO, Mario G. et al., "An Arabidopsis thaliana T-DNA mutagenized population (GABI-Kat) for flanking sequence lag-based reverse genetics," Plant Molecular Biology, Vol. 53:247-259 (2003)									
		Saito, T. et al., "First-in-Human Study of NS-065/NCNP-01; the Morpholino Based Antisense Oligonucleotide for Exon 53 Skipping in Duchenne Muscular Dystrophy," ASGCT meeting , May 13, 2015, Abstract [136] 1 page.									
	50	Saito, T. et al., "First-in-Human Study of NS-065/NCNP-01; the Morpholino Based Antisense Oligonucleotide for Exon 53 Skipping in Duchenne Muscular Dystrophy," ASGCT meeting , May 13, 2015, pages 1-11.									
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	Application Number		15705172	
	Filing Date		2017-09-14	
INFORMATION DISCLOSURE	First Named Inventor Steph		phen Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
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	1	2011/045747	wo		A1	2011-04-21	Universita Delgi Studi Di Ferrara				
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4	2012/001941	wo	A1	2012-01-05	Hagiwara, Masatoshi et al.	×
5	2012/029986	wo	A1	2012-03-08	Nippon Shinyaku Co., Ltd. et al.	
6	2012/043730	wo	A1	2012-04-05	Nippon Shinyaku Co., Ltd.	
7	2012/109296	wo	A1	2012-08-16	The Charlotte- Mecklenburg Hospital Authority D/B/A	
8	2012/150960	wo	A1	2012-11-08	Avi Biopharma, Inc	
9	2013/033407	wo	A2	2013-03-07	The Regents of the University of California	
10	2013/053928	wo	A1	2013-04-18	Association Institut De Myologie et al.	
11	2013/100190	wo	A1	2013-07-04	Nippon Shinyaku Co., Ltd. et al.	
12	2013/112053	wo	A1	2013-08-01	Prosensa Technologies B.V.	
13	2013/142087	wo	A1	2013-09-26	Sarepta Therapeutics, Inc	
14	2014/007620	WO	A2.	2014-01-09	Prosensa Technologies B.V.	

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15	5	2014/100714	wo	A1	2014-06-26	Sarepta Therapeutics, Inc	
16	5	2014/144978	wo	A2	2014-09-18	Sarepta Therapeutics, Inc	
17	7	2014/153220	wo	A2	2014-09-25	Sarepta Therapeutics, Inc	
18	В	2014/153240	wo	A2	2014-09-25	Sarepta Therapeutics, Inc	
19	9	2014/172669	wo	A1	2014-10-23	Res Inst At Nationwide Children S Hospital	
20	o	2017/059131	wo	A1	2017-04-06	Sarepta Therapeutics, Inc	
21	1	93/20227	wo	A1	1993-10-14	Abbott Laboratories	
22	2	94/02595	wo	A1	1994-02-03	Ribozyme Pharmaceuticals, Inc.	
23	3	94/26887	wo	A1	1994-11-24	The University of North Carolina at Chapel Hill	
24	4	96/10391	wo	A1	1996-04-11	The University of British Columbia	
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	2	COLLINS, C.A. et al., "D therapeutic strategies," I						dels used to investigate par 3)	thogenesis a	ınd develop			
	3	Confirmation of Dystroph Number 1167 filed in Inte						6 Laboratory Notebook Ent 1ry 16, 2015.	ry, Pages 3,	, Exhibit			
	4	Confirmation of Dystroph Number 1168 filed in Inte						poratory; Notebook Entry, I ry 16, 2015.	Pages 3, E	khibit			
	5		Evaluat	e the Effi	icacy an	d Safety of	Etepli	Multi-Center, 48-Week Stursen in Duchenne Muscula 3 pages					
	C	Coolidge v. Efendic, 200	8 WL 208	30735, In	it. No. 1	05,457 (BPA	\I May	y 16, 2008), 42 pages, (Ac	ademisch Zie	ekenhuis			

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7

November 18, 2014)

COREY, David R. et al., "Morpholino antisense oligonucleotides: tools for investigating vertebrate development," Genome Biology, Vol. 2(5):1015.1 - 1015.3 (2001) (Exhibit Number 1026 filed in interferences 106008, 106007 on

eiden Exhibit 1235, filed May 5, 2015 in Interference 106007 and 106008).

Coop 1:21 ov 0101F 1LLL Do	Sumont 10F 1 File		10/22 Dogg 177 of 261 Dogg D	
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Attorney Docket Number

AVN-008CN41

8	Corrected Priority Statement filed by UWA in Int. No. 106,008 (as PN 219),Pages 5, Exhibit Number 1002 filed in Interference 106,013 on February 17, 2015.
9	Cortes et al., "Mutations in the conserved loop of human U5 snRNA generate use of novel cryptic 5' splice sites in vivo," EMBO J., Vol. 12, No. 13, pp. 5181-5189 (1993), Exhibit Number 1187 filed in Interferences 106,007 and 106,008 on February 17, 2015.
10	CROOKE, Stanley T., Antisense Drug Technology, Principles, Strategies, and Applications, Marcel Dekker, Inc., New York, Chapters 15 and 16, pages 375-389, 391-469 (2001) (Exhibit Number 2075 filed in interferences 106008, 106013, 106007 on November 18, 2014)
11	Curriculum Vitae of Judith van Deutekom, Pages 6, Exhibit Number 1126 filed in interferences 106,007 and 106,008 on February 17, 2015.
12	Curriculum Vitae, Erik Joseph Sontheimer, 18 pages, dated September 29, 2014 (Exhibit Number 1013 filed in nterferences 106008, 106007 on November 18, 2014)
13	CV, Professor Matthew J.A. Wood, 3 pages (Exhibit Number 2003 filed in interferences 106008, 106007 on November 18, 2014)
14	DAVIS, Richard J. et al., "Fusion of PAX7 to FKHR by the Variant t(1;13)(p36;q14) Translocation in Alveolar Rhabdomyosarcoma," Cancer Research, Vol. 54:2869-2872 (1994) (Exhibit Number 1027 filed in interferences 106008, 106007 on November 18, 2014)
15	DE ANGELIS, Fernanda Gabriella et al., "Chimeric snRNA molecules carrying antisense sequences against the splice unctions of exon 51 of the dystrophic pre-mRNA induce exon skipping and restoration of a dystrophin synthesis in 48-50 DMD cells," PNAS, Vol. 99(14):9456-9461 (2002)
16	Decision on Appeal, Ex Parte Martin Gleave and Hideaki Miyake, Appeal No. 2005-2447, Appl. No. 09/619,908 (January 31, 2006) (2009 WL 6927761 (Bd.Pat.App.& Interf.), Pages 12, Exhibit Number 1207 filed in Interferences 106,007 and 106,008 on February 17, 2015.
17	Decision on Request for ReHearing, Ex Parte Roderick John Scott, Appeal No. 2008-004077, Appl. No. 10/058,825 (January 6, 2010) (2010 WL 191079 (Bd.Pat.App. & Interf.),Pages 21, Exhibit Number 1208 filed in Interferences 106,007 and 106,008 on February 17, 2015.
18	Declaration of Judith C.T. van Deutekom Under 37 C.F.R. §1.132, filed on January 27, 2012, in U.S. Patent Reexamination Control No 90/011,320, regarding U.S. Patent No. 7,534,879, (University of Western Australia Exhibit 2133, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-10).

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Case 1:21-cv-01015-JLH Doc	Application Number 7	u 12/	18/23 Page 178 of 361 PageID 15/05172	
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15	Declaration of Judith van Deutekom, Pages 45, Exhibit Number 1125 filed in interferences 106,007 and 106,008 on February 17, 2015.
26	DELLORUSSO, Christiana et al., "Functional correction of adult mdx mouse muscle using gutted adenoviral vectors expressing full-length dystrophin," PNAS, Vol. 99(20):12979-12984 (2002)
2	Deposition Transcript of Erik J. Sontheimer, Ph.D. of January 21, 2015 (99 pages), Exhibit Number 1215 filed in Interferences 106,007 and 106,008 on February 17, 2015.
22	Deposition Transcript of Matthew J. A. Wood, M.D., D. Phil., January 22, 2015, including Errata Sheet, Pages 198, Exhibit Number 1007 filed in Interference 106,013 on February 17, 2015.
23	Deposition Transcript of Matthew J. A. Wood, M.D., D. Phil., Pages 196, Exhibit Number 1122 filed in interferences 106,007 and 106,008 on February 17, 2015.
24	Desalting of Oligonucleotides, Pages 2, Exhibit Number 1132 filed in Interferences 106,007 and 106,008 on February 17, 2015.
25	DIRKSEN, Wessel P. et al., "Mapping the SF2/ASF Binding Sites in the Bovine Growth Hormone Exonic Splicing Enhancer," The Journal of Biological Chemistry, Vol. 275(37):29170-29177 (2000)
26	DOMINSKI, Zbigniew et al., "Identification and Characterization by Antisense Oligonucleotides of Exon and Intron Sequences Required for Splicing," Molecular and Cellular Biology, Vol. 14(11):7445-7454 (1994)
27	DOMINSKI, Zbigniew et al., "Restoration of correct splicing in thalassemic pre-mRNA by antisense oligonucleotides," Proc. Natl. Acad. Sci. USA, Vol. 90:8673-8677 (1993)
28	DORAN, Philip et al., "Proteomic profiling of antisense-induced exon skipping reveals reversal of pathobiochemical abnormalities in dystrophic mdx diaphragm," Proteomics, Vol. 9:671-685, DOI 10.1002/pmic.200800441 (2009)
29	DOUGLAS, Andrew G.L. et al., "Splicing therapy for neuromuscular disease," Molecular and Cellular Neuroscience, Vol. 56:169-185 (2013) (Exhibit Number 2005 filed in interferences 106008, 106013, 106007 on November 18, 2014)

Coop 1:21 ov 0101F 1LL Doo			10/22 Dogg 170 of 261 DoggID	
Case 1:21-cv-01015-JLH Doc	Application Number	u 12/	18 /23 Page 179 of 361 PageID 15705172	
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(NOT 101 Submission under 01 01 IC 1.00)	Examiner Name	Not Y	et Assigned	

30	Doyle, Donald F., et al. (2001) "Inhibition of Gene Expression Inside Cells by PeptideNucleic Acids: Effect of mRNA Target Sequence, Mismatched Bases, and PNA Length," Biochemistry 40:53-64, (Exhibit Number 2123 filed in Interferences 106,007 and 106,008 on February 17, 2015.
31	Dr. Wood Errata Sheet - 22 Jan 2015, Pages 2, Exhibit Number 1227 filed in Interferences 106,007 and 106,008 on February 17, 2015.
32	DUNCKLEY, Matthew G. et al., "Modification of splicing in the dystrophin gene in cultured Mdx muscle cells by antisense oligoribonucleotides," Human Molecular Genetics, Vol. 5(1):1083-1090 (1995)
33	DUNCKLEY, Matthew G. et al., "Modulation of Splicing in the DMD Gene by Antisense Oligoribonucleotides," Nucleosides & Nucleotides, Vol. 16(7-9):1665-1668 (1997)
34	ECKSTEIN, F., "Nucleoside Phosphorothioates," Ann. Rev. Biochem., Vol. 54:367-402 (1985) (Exhibit Number 1028 filed in interferences 106008, 106007 on November 18, 2014)
35	ELAYADI, Anissa N. et al., "Application of PNA and LNA oligomers to chemotherapy," Current Opinion in Investigational Drugs, Vol. 2(4):558-561 (2001)
36	Email from Danny Huntington to Interference Trial Section, dated September 21, 2014, Pages 2, Exhibit Number 3001 filed in Interference 106,007, 106,008, and 106,013 on September 26, 2014.
37	Email From Sharon Crane to Interference Trial Section, dated November 13, 2014, Pages 2, Exhibit Number 3002 filed in Interference 106,007, 106,008, and 106,013 on dated November 14, 2014.
38	Emery, A.E. H., "Population frequericies of inherited neuromuscular diseases - a world survey," Neuromuscul Disord 1991;1:19-29.
39	Errata sheet for the January 22, 2015 deposition of Matthew J. A. Wood, M.D., D. PHIL., 2 pages, (Exhibit Number 2128 filed in interferences 106,007 and 106,008 on February 17, 2015.
40	Errata sheet for the March 12, 2015 deposition of Erik J. Sontheimer, Ph.D., (University of Western Australia Exhibit 2149, filed April 3, 2015 in Interferences 106007, 106008, and 106013, page 1).
40	

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	41	Errata to the Sarepta Briefing Information for the April 25, 2016 Meeting of the Peripheral and Central Nervous System Drugs Advisory Committee, Eteplirsen Errata Document, NDA 206488, 5 pages.	
	42	ERRINGTON, Stephen J. et al., "Target selection for antisense oligonucleotide induced exon skipping in the dystrophin gene," The Journal of Gene Medicine, Vol. 5:518-527 (2003)	
	43	European Office Action for Application No. 09752572.9, 5 pages, dated February 29, 2012	
	44	European Response, Application No. 10004274.6, 7 pages, dated November 5, 2013 (Exhibit Number 1060 filed in interferences 106008, 106007 on November 18, 2014)	
	45	European Response, Application No. 12198517.0, 7 pages, dated October 21, 2014 (Exhibit Number 2084 filed in nterferences 106008, 106013, 106007 on November 18, 2014)	
	46	European Search Report for Application No. 10004274.6, 12 pages, dated January 2, 2013	
	47	European Search Report, EP15168694.6, dated July 23, 2015, pages 1-8.	
	48	Excerpts from Prosecution History of Application No. 13/741,150: Notice of Allowance dated March 16, 2015; List of References cited by Applicant and Considered by Examiner; Notice of Allowance and Fees due dated September 18, 2014; Amendment in Response to Non-Final Office Action dated July 11, 2014, (Academisch Ziekenhuis Leiden Exhibit 1229, filed April 3, 2015 in Interference 106007 and 106008, pages 1-133).	
	49	Excerpts from Prosecution History of Application No. 13/826,880: Notice of Allowance dated January 26, 2015 and Amendment in Response to Non-Final Office Action dates October 15, 2014, (Academisch Ziekenhuis Leiden Exhibit 1228, filed April 3, 2015 in Interference 106007 and 106008, pages 1-16).	
	50	Excerpts from Yeo (Ed.), "Systems Biology of RNA Binding Proteins," Adv. Exp. Med. Biol., Chapter 9, 56 pages (2014), (Academisch Ziekenhuis Leiden Exhibit 1232, filed April 3, 2015 in Interference 106007 and 106008, pages 1-56).	
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Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		15705172	
	Filing Date		2017-09-14	
	First Named Inventor Stephe		hen Donald WILTON	
	Art Unit		1674	
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INFORMATION DIGGL COURT	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
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1	Laboratory Notebook Entry (Exon 51 Experiments): RT-PCR Analysis of 8036 Cells, Pages 2, Exhibit Number 1179 filed in Interferences 106,007 and 106,008 on February 16, 2015.
2	Laboratory Notebook Entry (Exon 51 Experiments): RT-PCR Analysis of KM155.C25 Cells, Pages 2, Exhibit Number 1178 filed in Interferences 106,007 and 106,008 on February 16, 2015.
3	Laboratory Notebook Entry (Exon 51 Experiments): Transfection of 8036 Cells, Pages 1, Exhibit Number 1172 filed in Interferences 106,007 and 106,008 on February 16, 2015.
4	Laboratory Notebook Entry (Exon 51 Experiments): Transfection of KM155.C25 Cells, Pages 1, Exhibit Number 1171 filed in Interferences 106,007 and 106,008 on February 16, 2015.
5	Laboratory Notebook Entry (Exon 53 Experiments): RT-PCR Analysis of KM155.C25 Cells, Pages 2, Exhibit Number 1180 filed in Interferences 106,007 and 106,008 on February 16, 2015.
6	Laboratory Notebook Entry (Exon 53 Experiments): RT-PCR Analysis of R1809 Cells, Pages 2, Exhibit Number 1181 filed in Interferences 106,007 and 106,008 on February 16, 2015.
7	Laboratory Notebook Entry (Exon 53 Experiments): Transfection of KM155.C25 Cells, Pages 1, Exhibit Number 1173 filed in Interferences 106,007 and 106,008 on February 16, 2015.
8	Laboratory Notebook Entry (Exon 53 Experiments): Transfection of R1809 Cells, Pages 1, Exhibit Number 1174 filed in Interferences 106,007 and 106,008 on February 16, 2015.
9	Claims from US Application No. 11/233,495, 6 pages, dated September 21, 2005 (Exhibit Number 2068 filed in nterferences 106008, 106013, 106007 on November 18, 2014)
10	Laboratory Notebook Entry: General RNA recovery, Pages 2, Exhibit Number 1176 filed in Interferences 106,007 and 106,008 on February 16, 2015.
11	Laboratory Notebook Entry: Lab-on-a-Chip Analysis, Pages 3, Exhibit Number 1184 filed in Interferences 106,007 and 106,008 on February 16, 2015.

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Attorney Docket Number

AVN-008CN41

12	Larsen et al., "Antisense properties of peptide nucleic acid," Biochim. Et Biophys. Acta, Vol. 1489, pp. 159-166 (1999), Exhibit Number 1190 filed in Interferences 106,007 and 106,008 on February 17, 2015.
13	Letter from the FDA to Sarepta Therapeutics, Inc., Re: ACCELERATED APPROVAL for the use of Exondys 51 (eteplirsen), FDA Reference ID: 3987286, dated September 19, 2016, 11 pages.
14	Letter to the U.S. Food and Drug Administration, (Dr. Billy Dunn, M.D. Director Division of Neurology Products, Office of Drug Evaluation 1, Center for Drug Evaluation and Research), for The Peripheral and Central Nervous System Advisory Committee Meeting (AdComm) supporting approval of eteplirsen, dated February 24, 2016, 4 pages.
15	Letter to the U.S. Food and Drug Administration, (Dr. Janet Woodcock, M.D. Director, CDER), from The Congress of The United States regarding Duchenne muscular dystrophy, dated February 17, 2016, 7 pages.
16	List of Publications for Matthew J. A. Wood, M.D., D. PHIL., 11 pages, (Exhibit Number 2124 filed in interferences 106,007 and 106,008 on February 17, 2015.
17	LIU, Hong-Xiang et al., "Identification of functional exonic splicing enhancer motifs recognized by individual SR proteins," Genes & Development, Vol. 12:1998-2012 (1998)
18	Lu et al, "Massive Idiosyncratic Exon Skipping Corrects the Nonsense Mutation in Dystrophic Mouse Muscle and Produces Functional Revertant Fibers by Clonal Expansion," THE JOURNAL OF CELL BIOLOGY, Vol. 148(5): 985-995, March 6, 2000 ("Lu et al.") (Exhibit Number 1082 filed in interferences 106008, 106007 on December 23, 2014)
19	LU, Qi Long et al., "Functional amounts of dystrophin produced by skipping the mutated exon in the mdx dystrophic mouse," Nature Medicine, Vol. 9(8):1009-1014 (2003)
20	LU, Qi-long et al., "What Can We Learn From Clinical Trials of Exon Skipping for DMD?" Molecular Therapy - Nucleic Acids, Vol. 3:e152, doi:10.1038/mtna.2014.6, 4 pages (2014)
21	Lyophilisation of Oligonucleotides, Pages 2, Exhibit Number 1133 filed in Interferences 106,007 and 106,008 on February 17, 2015.
22	MANN, Christopher J. et al., "Antisense-induced exon skipping and synthesis of dystrophin in the mdx mouse," PNAS, Vol. 98(1):42-47 (2001)

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Case 1:21-cv-01015-JLH Doc	Application Number 6	u 1 <i>21</i>	18 /23 Page 187 of 361 PageID 15705172		
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23	MANN, Christopher J. et al., "Improved antisense oligonucleotide induced exon skipping in the mdx mouse model of muscular dystrophy," The Journal of Gene Medicine, Vol. 4:644-654 (2002)
24	MANNINO, Raphael J. et al., "Liposome Mediated Gene Transfer," BioTechniques, Vol. 6(7):682-690 (1988)
25	Manual of Patent Examining Procedure 2308.02 (6th ed., rev. 3, July 1997), (University of Western Australia Exhibit 2143, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-2).
26	Manzur A, et al.,. "Glucocorticoid corticosteroids for Duchenne muscular dystrophy," Cochrane Database Syst Rev. 2004;(2):CD003725.
27	MARSHALL, N.B. et al., "Arginine-rich cell-penetrating peptides facilitate delivery of antisense oligomers into murine eukocytes and alter pre-mRNA splicing," Journal of Immunological Methods, Vol. 325:114-126 (2007)
28	Mathews et al., "Expanded Sequence Dependence of Thermodynamic Parameters Improves Prediction of RNA Secondary Structure," J. Mol. Biol. 288:911-940 (1999), (University of Western Australia Exhibit 2131, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-31).
29	Mathews et al., "Expanded Sequence Dependence of Thermodynamic Parameters Improves Prediction of RNA Secondary Structure," J. Mol. Biol., Vol. 288, pp. 911-940 (1999), Exhibit Number 1212 filed in Interferences 106,007 and 106,008 on February 17, 2015.
30	MATSUO, Masafumi et al., "Exon Skipping during Splicing of Dystrophin mRNA Precursor due to an Intraexon Deletion in the Dystrophin Gene of Duchenne Muscular Dystrophy Kobe," J. Clin. Invest., Vol. 87:2127-2131 (1991)
31	MATSUO, Masafumi et al., "Treatment of Duchenne Muscular Dystrophy with Oligonucleotides against an Exonic Splicing Enhancer Sequence," Basic Appl. Myol., Vol. 13(6):281-285 (2003)
32	MATSUO, Masafumi, "Duchenne and Becker Muscular Dystrophy: From Gene Diagnosis to Molecular Therapy," IUBMB Life, Vol. 53:147-152 (2002)
33	MATSUO, Masafumi, "Duchenne/Becker muscular dystrophy: from molecular diagnosis to gene therapy," Brain & Development, Vol. 18:167-172 (1996)

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Case 1.21-CV-01013-3EH D00	Application Number 7	u 1 <i>21</i>	15/05/172 Page 166 of 501 Page 15		
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INFORMATION DISCLOSURE	First Named Inventor	Steph	hen Donald WILTON		
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34	MATTEUCCI, Mark, "Structural modifications toward improved antisense oligonucleotides," Perspectives in Drug Discovery and Design, Vol. 4:1-16 (1996)	
35	Mazzone E, et al. "Functional changes in Duchenne muscular dystrophy: a 12-month longitudinal cohort study," Neurology 2011;77(3):250-6.	
36	MCCARVILLE, M. Beth et al., "Rhabdomyosarcoma in Pediatric Patients: The Good, the Bad, and the Unusual," AJR, Vol. 176:1563-1569 (2001) (Exhibit Number 1034 filed in interferences 106008, 106007 on November 18, 2014)	
37	MCCLOREY, G. et al., "Antisense oligonucleotide-induced exon skipping restores dystrophin expression in vitro in a canine model of DMD," Gene Therapy, Vol. 13:1373-1381 (2006)	
38	MCCLOREY, G. et al., "Induced dystrophin exon skipping in human muscle explants," Neuromuscular Disorders, Vol. 16:583-590 (2006)	
39	MCCLOREY, Graham et al., "Splicing intervention for Duchenne muscular dystrophy," Current Opinion in Pharmacology, Vol. 5:529-534 (2005)	
40	McDonald CM, et al., "Profiles of Neuromuscular Diseases, Duchenne muscular dystrophy," Am J Phys Med Rehabil 1995;74:S70-S92	
41	McDonald CM, et al., "The 6-minute walk test as a new outcome measure in Duchenne muscular dystrophy," Muscle Nerve 2010;41:500-10.	
42	McDonald CM, et al., "The 6-minute walk test in Duchenne/Becker muscular dystrophy: longitudinal observations," Muscle Nerve 2010;42: 966-74.	
43	Mendell JR et al., "Evidence-based path to newborn screening for Duchenne muscular Dystrophy," Ann Neurol 2012;71:304-13.	
44	Mendell JR, et al., "Dystrophin immunity revealed by gene therapy in Duchenne muscular dystrophy," N Engl J Med 2010;363:1429-37.	

Case 1:21-cv-01015-JLH Dod	rumont 12E 1 Eilo	412/	18/23. Page 189 of 361 PageID		
Case 1.21-CV-01013-JLH D00	Tument 435-1 File Application Number 8	u 121	15/05172 Page 189 of 361 PageID		
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INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON		
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674		
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	Attorney Docket Number	er	AVN-008CN41		

45		Mendell JR, et al., "Randomized, double-blind six-month trial of prednisone in Duchenne's muscular dystrophy," N Engl J Med 1989;320:1592-97.								
46		MENDELL, Jerry R. et al., "Eteplirsen for the Treatment of Duchenne Muscular Dystrophy," Ann. Neurol., Vol. 74:637-647 (2013) (Exhibit Number 2058 filed in interferences 106008, 106013, 106007 on November 18, 2014)								
47		MENDELL, Jerry R. et al., "Eteplirsen in Duchenne Muscular Dystrophy (DMD): 144 Week Update on Six-Minute Walk Test (6MWT) and Safety," slideshow, presented at the 19th International Congress of the World Muscle Society, 17 pages (2014) (Exhibit Number 2059 filed in interferences 106008, 106013, 106007 on November 18, 2014)								
48	MENDELL, Jerry R. et al., "Gene therapy for muscular dystrophy: Lessons learned and path forward," Neurosciend Letters, Vol. 527:90-99 (2012)									
49		Merlini L, et al., "Early corticosteroid treatment in 4 Duchenne muscular dystrophy patients: 14-year follow-up," Muscle Nerve 2012;45:796-802.								
50		Mfold illustrations for Exon 51 and Exon 53 with varying amounts of intron sequence, (University of Western Australia Exhibit 2132, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-2).								
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A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

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Standard ST.3). ³ For Japa	D Patent Documents at <u>www.Us</u> nese patent documents, the ind ppropriate symbols as indicated n is attached.	lication of the year o	of the reign o	f the Emp	peror must precede the seria	al number of the patent d	ocument.				

Case 1:21-cv-01015-JLH Dod			10/22 Dogg 104 of 201 Dogg D	
Case 1.21-CV-01013-JLH D00	Application Number 3	u 121	18 /23 Page 194 of 361 PageID 15705172	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date		2017-09-14	
	First Named Inventor Steph		hen Donald WILTON	
	Art Unit		1674	
	Examiner Name	K. Ch	ong	
	Attorney Docket Number	er	AVN-008CN41	

CERTIFIC	:ATI	ON	STA	TEN	ЛEN	JT
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

That no item of information contained in the information disclosure statement was cited in a communication from a
foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification
after making reasonable inquiry, no item of information contained in the information disclosure statement was known to
any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure
statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

X A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-26
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a
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 negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		15705172	
	Filing Date		2017-09-14	
	First Named Inventor Stephe		hen Donald WILTON	
	Art Unit		1674	
	Examiner Name	Not Ye	Yet Assigned	
	Attorney Docket Numb	er	AVN-008CN41	

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Coop 1,21 av 0101F 1LL Doc			110/22 Page 107 of 261 Page D
Case 1:21-cv-01015-JLH Doc	Application Number 6	u 1 <i>21</i>	18 /23 Page 197 of 361 PageID 15705172
INFORMATION BIOOL COURS	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(NOT 101 Submission under 01 01 10 1.00)	Examiner Name	Not Y	et Assigned

1	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Exhibit List as of November 18, 2014, 7 pages, Patent Interference No. 106,008, dated November 18, 2014 (Doc 216)	
2	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Exhibit list, 7 pages, Patent Interference No. 106,007, dated November 18, 2014 (Doc 213)	
3	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Exhibit list, 7 pages, Patent Interference No. 106,013, dated November 18, 2014 (Doc 134)	
4	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Exhibit List, 7 pages, Patent Interference Nos. 106,008, dated December 12, 2014 (Doc 221)	
5	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Exhibit List, 8 pages, Patent Interference No. 106,007, dated December 12, 2014 (Doc 217)	
6	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA List of Proposed Motions, Patent Interference No. 106,007, 7 pages, dated September 10, 2014 (Doc 17)	
7	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA List of Proposed Motions, Patent Interference No. 106,008, 6 pages, dated September 10, 2014 (Doc 16)	
8	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Miscellaneous Motion 1 (for authorization to file terminal disclaimer), 5 pages, Patent Interference No. 106,008, dated October 17, 2014 (Doc 22)	
9	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Motion 1 (For Judgment Under 35 U.S.C., section 112(a)), 40 pages, Patent Interference No. 106,007, dated November 18, 2014 (Doc 210)	
10	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Motion 1 (For Judgment Under 35 § 112(a)) Patent Interference No. 106,008 (Doc 213), 38 Pages, on November 18, 2014	
11	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Motion 1 (To Maintain Interference between UWA US Patent No. 8,486,907 and AZL USSN 14/198,992), 45 pages, Patent Interference No. 106,013, dated November 18, 2014 (Doc 133)	

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Case 1:21-cv-01015-JLH Doo	Application Number 7	u 12/	18 /23 Page 198 of 361 PageID 15/05172
INFORMATION PLOOL COLLEGE	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(NOT TO SUBMISSION WHILE OF OF IC 1.00)	Examiner Name	Not Y	et Assigned

Attorney Docket Number

AVN-008CN41

12	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Motion 2 (For Judgment Under 35 U.S.C. section 112(b)), 32 pages, Patent Interference No. 106,008, dated November 18, 2014 (Doc 214)	
13	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Motion 2 (For Judgment Under 35 U.S.C. section 112(b)), 34 pages, Patent Interference No. 106,007, dated November 18, 2014 (Doc 211)	
14	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Motion 3 (For judgment that Claims 11-12, 14-15, and 17-29 of Application No. 13/550,210 are barred under 35 U.S.C. section 135(b)), 25 Pages, Patent Interference No. 106,008, dated November 18, 2014 (Doc 215)	
15	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Notice of Filing Priority Statement, 2 pages, Patent Interference No. 106,008, dated November 18, 2014 (Doc 218)	
16	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Notice of Recent Authority, filed in Patent Interference No. 106,007, July 2, 2015, pages 1-16 (Doc 469).	
17	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Notice of Recent Authority, filed in Patent Interference No. 106,007, September 2, 2015, pages 1-18 (Doc 470).	
18	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Notice of Recent Authority, filed in Patent Interference No. 106,008, July 2, 2015, pages 1-16 (Doc 477)	
19	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Notice of Recent Authority, filed in Patent Interference No. 106,008, September 2, 2015, pages 1-18 (Doc 478).	
20	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Notice of Related Proceedings, Patent Interference No. 106,007, 3 pages, dated August 1, 2014 (Doc 11)	
21	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Notice of Related Proceedings, Patent Interference No. 106,008, 5 pages, dated August 7, 2014 (Doc 11)	
22	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Notice of Related Proceedings, Patent Interference No. 106,013, 3 pages, dated October 14, 2014 (Doc 6)	

Case 1:21-cv-01015-JLH Dod			1 <u>8/23 Page 199 of 361 PageID</u>
Case 1.21-CV-01013-JLH D00	Application Number	u 1 <i>21</i>	15/05172 Page 199 0/ 301 Page D
INTEGRALATION DIGGI COURT	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(not to submission and of or trivey	Examiner Name	Not Y	et Assigned

23	US 7,960,541 (Wilton et al.), Pages 84, Exhibit Number 1002 filed in interferences 106,007 and 106,008 on November 18, 2014.
24	US 8,450,474 (Wilton et al.), Pages 95, Exhibit Number 1087 filed in interferences 106,007 and 106,008 on February 13, 2015.
25	US 8,455,634 (Wilton et al.) Pages 95, Exhibit Number 1088 filed in interferences 106,007 and 106,008 on February 13, 2015.
26	US 8,455,635 (Wilton et al.), Pages 96, Exhibit Number 1089 filed in interferences 106,007 and 106,008 on February 13, 2015.
27	US 8,455,636 (Wilton et al.), Pages 92, Exhibit Number 1003 filed in interferences 106,007 and 106,008 on November 18, 2014.
28	US 8,476,423 (Wilton et al.), Pages 95, Exhibit Number 1111 filed in interferences 106,007 and 106,008 on February 13, 2015.
29	US 8,501,703 (Bennett et al.), Pages 16, Exhibit Number 1090 filed in interferences 106,007 and 106,008 on February 13, 2015.
30	US 8,501,704 (Mourich et al.), Pages 39, Exhibit Number 1091 filed in interferences 106,007 and 106,008 on February 13, 2015.
31	US 8,524,676 (Stein et al.), Pages 28, Exhibit Number 1092 filed in interferences 106,007 and 106,008 on February 13, 2015.
32	US 8,524,880 (Wilton et al.), Pages 89, Exhibit Number 1093 filed in interferences 106,007 and 106,008 on February 13, 2015.
33	US 8,536,147 (Weller et al.), Pages 95, Exhibit Number 1094 filed in interferences 106,007 and 106,008 on February 17, 2015,Doc 251.

Case 1:21-cv-01015-JLH Doc			10/22 Dogg 200 of 261 Dogg D	
Case 1.21-CV-01013-JLH D00	Application Number 9	u 12/	18/23 Page 200 of 361 PageID 15/05172	
INFORMATION BIOGLOGUES	Filing Date		2017-09-14	
INFORMATION DISCLOSURE	First Named Inventor S		Stephen Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(NOT 101 Submission under 01 01 IC 1.00)	Examiner Name	Not Yet Assigned		

34	US 8,592,386 (Mourich et al.), Pages 46, Exhibit Number 1095 filed in interferences 106,007 and 106,008 on February 13, 2015.
35	US 8,618,270 (Iversen et al.), Pages 28, Exhibit Number 1096 filed in interferences 106,007 and 106,008 on February 13, 2015.
36	US 8,637,483 (Wilton et al.), Pages 157, Exhibit Number 1097 filed in interferences 106,007 and 106,008 on February 13, 2015.
37	US 8,697,858 (Iversen), Pages 95, Exhibit Number 1098 filed in interferences 106,007 and 106,008 on February 13, 2015.
38	US 8,703,735 (Iversen et al.) Pages 73, Exhibit Number 1099 filed in interferences 106,007 and 106,008 on February 13, 2015.
39	US 8,741,863 (Moulton et al.), Pages 68, Exhibit Number 1100 filed in interferences 106,007 and 106,008 on February 13, 2015.
40	US 8,759,307 (Stein et al.), Pages 35, Exhibit Number 1101 filed in interferences 106,007 and 106,008 on February 13, 2015.
41	US 8,779,128 (Hanson et al.), Pages 104, Exhibit Number 1102 filed in interferences 106,007 and 106,008 on February 13, 2015.
42	US 8,785,407 (Stein et al.), Pages 35, Exhibit Number 1103 filed in interferences 106,007 and 106,008 on February 13, 2015.
43	US 8,785,410 (Iversen et al.), Pages 20, Exhibit Number 1104 filed in interferences 106,007 and 106,008 on February 13, 2015.
44	US 8,835,402 (Kole et al.), Pages 27, Exhibit Number 1105 filed in interferences 106,007 and 106,008 on February 13, 2015.

(Case	1:21-cv-01015-JLH Do	cument 435-1 File Application Number	ed 12	/ 18/23 Page 201 of 361 PageID	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		Filing Date		2017-09-14		
		First Named Inventor	First Named Inventor Stephen Donald WILTON			
		Art Unit		1674		
		Examiner Name	Not Y	et Assigned		
		Attorney Docket Number AVN-008CN41				
US 8,865,883 (Sazani et al.), Pages 199, Exhibit Number 1106 filed in interferences 106,007 and 106,008 on February 13, 2015.						

f you wi	sh to a	add additional non-patent literature document citation information please click the Add button Add EXAMINER SIGNATURE
f you wi	sh to a	
	50	US Abandonment for Application No. 13/902,376, 1 page, dated June 12, 2014 (Exhibit Number 1047 filed in Interferences 106008, 106007 on November 18, 2014)
	49	US 8,906,872 (Iversen et al.), Pages 69, Exhibit Number 1110 filed in interferences 106,007 and 106,008 on February 13, 2015.
	48	US 8,895,722 (Iversen et al.), Pages 29, Exhibit Number 1109 filed in interferences 106,007 and 106,008 on February 13, 2015.
	47	US 8,877,725 (Iversen et al.), Pages 34, Exhibit Number 1108 filed in interferences 106,007 and 106,008 on February 13, 2015.
	46	US 8,871,918 (Sazani et al.), Pages 195, Exhibit Number 1107 filed in interferences 106,007 and 106,008 on February 13, 2015.
	45	13, 2015.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

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Case 1:21-cv-01015-JLH Doc	Application Number 1	u 12/	18/23 Page 202 of 361 PageID 15/05172	
INFORMATION DIGGL COURT	Filing Date		2017-09-14	
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(lest for submission under or or it iso)	Examiner Name	Not Yet Assigned		
	Attorney Docket Number		AVN-008CN41	

	CERTI	FIC	AT	10N	STA	TE	MEN	IT
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Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

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- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Thereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filling system in accordance with 37 CFR § 1.6(a)(4).

Dated: September 22, 2017

Electronic Signature for Amy E. Mandragouras, Esq.: /Amy E. Mandragouras, Esq./

Docket No.: AVN-008CN41 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Stephen Donald Wilton et al.

Application No.: 15/705,172 Confirmation No.: 2879

Filed: September 14, 2017 Art Unit: 1674

For: ANTISENSE OLIGONUCLEOTIDES FOR

INDUCING EXON SKIPPING AND METHODS OF USE THEREOF

Examiner: Not Yet Assigned

<u>INFORMATION DISCLOSURE STATEMENT (IDS)</u>

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In compliance with 37 C.F.R. § 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached PTO/SB/08. It is respectfully requested that the documents listed on the PTO/SB/08 be expressly considered by the Examiner during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

For the Examiner's convenience in reviewing this continuation application, Applicant submits a consolidated PTO/SB/08, listing all references cited during the prosecution of the parent applications. The present application is a continuation of U.S. Application No. 15/274,772, filed September 23, 2016 (Atty. Docket No. AVN-008CN37). In accordance with 37 C.F.R. §1.98(d), copies of the references previously cited by or submitted to the Office in the parent applications are not enclosed, but will be provided upon request.

Applicant calls to the attention of the Examiner the following Applications and Office Actions issued therein:

		Applicat	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Examiner's Initials	Serial No.	Filing Date	First Named Inventor	Docket No.
	11/570,691	January 15, 2008	Stephen Donald Wilton	AVN-008
	12/837,356	July 15, 2010	Stephen Donald Wilton	AVN-008CN
	12/837,359	July 15, 2010	Stephen Donald Wilton	AVN-008CN2
	12/860,078	August 20, 2010	Stephen Donald Wilton	AVN-008CN3
	13/168,857	June 24, 2011	Stephen Donald Wilton	AVN-008CN4
	13/168,863	June 24, 2011	Stephen Donald Wilton	AVN-008CN5
	13/270,500	October 11, 2011	Stephen Donald Wilton	AVN-008CN6
	13/270,531	October 11, 2011	Stephen Donald Wilton	AVN-008CN7
	13/270,744	October 11, 2011	Stephen Donald Wilton	AVN-008CN8
	13/270,937	October 11, 2011	Stephen Donald Wilton	AVN-008CN9
	13/270,992	October 11, 2011	Stephen Donald Wilton	AVN-008CN10
	13/271,080	October 11, 2011	Stephen Donald Wilton	AVN-008CN11
	13/727,415	December 26, 2012	Stephen Donald Wilton	AVN-008CN12
	13/741,150	January 14, 2013	Stephen Donald Wilton	AVN-008CN13
	13/826,613	March 14, 2013	Stephen Donald Wilton	AVN-008CN14
	13/826,880	March 14, 2013	Stephen Donald Wilton	AVN-008CN15
	13/902,376	May 24, 2013	Stephen Donald Wilton	AVN-008CN17
	13/963,578	August 9, 2013	Stephen Donald Wilton	AVN-008CN18

	14/086,859	November 21, 2013	Stephen Donald Wilton	AVN-008CN19
	14/178,059	February 11, 2014	Stephen Donald Wilton	AVN-008CN20
	14/223,634	March 24, 2014	Stephen Donald Wilton	AVN-008CN22
	14/273,318	May 8, 2014	Stephen Donald Wilton	AVN-008CN23
	14/273,379	May 8, 2014	Stephen Donald Wilton	AVN-008CN24
	14/316,603	June 26, 2014	Stephen Donald Wilton	AVN-008CN25
	14/316,609	June 26, 2014	Stephen Donald Wilton	AVN-008CN26
	14/317,952	June 27, 2014	Stephen Donald Wilton	AVN-008CN27
	14/740,097	June 15, 2015	Stephen Donald Wilton	AVN-008CN28
	14/852,090	September 11, 2015	Stephen Donald Wilton	AVN-008CN29RCE
	14/852,149	September 11, 2015	Stephen Donald Wilton	AVN-008CN30
	14/857,555	September 17, 2015	Stephen Donald Wilton	AVN-008CN31
	14/857,561	September 17, 2015	Stephen Donald Wilton	AVN-008CN32RCE
	14/858,250	September 18, 2015	Stephen Donald Wilton	AVN-008CN33
	15/274,719	September 23, 2016	Stephen Donald Wilton	AVN-008CN36
	15/274,772	September 23, 2016	Stephen Donald Wilton	AVN-008CN37
	15/349,535	11-11-2016	Stephen Donald Wilton	AVN-008RE
	12/605,276	October 23, 2009	Peter SAZANI	AVN-009RCE
***************************************	13/829,545	March 14, 2013	Peter SAZANI	AVN-009CN
	13/830,253	March 14, 2013	Peter SAZANI	AVN-009CN2
	14/523,610	October 24, 2014	Peter SAZANI	AVN-009DV
	14/852,257	September 11, 2015	Peter SAZANI	AVN- 009DVCN1RCE

14/852,264	September 11, 2015	Peter SAZANI	AVN-009DVCN2
14/857,569	September 17, 2015	Peter SAZANI	AVN-009DVCN3
14/857,590	September 17, 2015	Peter SAZANI	AVN-009DVCN4
14/858,416	September 18, 2015	Peter SAZANI	AVN-009DVCN5
14/743,856	June 18, 2015	R.K. BESTWICK	AVN-10PCCN
14/213,629	March 14, 2014	E.M. KAYE	AVN-012ARCE
14/214,567	March 14, 2014	E.M. KAYE	AVN-012BRCE
14/213,607	March 14, 2014	R.K. BESTWICK	AVN-013A
14/214,480	March 14, 2014	R.K. BESTWICK	AVN-013BRCE
14/942,629	November 16, 2015	R.K. BESTWICK	AVN-013ACN
13/509,331	July 9, 2012	S.D. WILTON	AVN-015US
14/108,137	December 16, 2013	S.D. WILTON	AVN-015USCN
14/944.886	November 18, 2015	S.D. WILTON	AVN-015USCN2
14/213,641	March 14, 2014	R.K. BESTWICK	AVN-017RCE
14/776,533	September 14, 2015	R.K. BESTWICK	AVN-017CPUS

	Office A	Actions (copies enclosed)	
Examiner's Initials	Serial No.	Date Mailed from USPTO	Examiner
	11/570,691	August 16, 2010	Kimberly Chong
	11/570,691	March 15, 2010	Kimberly Chong
	11/570,691	May 26, 2009	Kimberly Chong
	12/837,356	May 3, 2013	Kimberly Chong
	12/837,356	April 3, 2013	Kimberly Chong
	12/837,356	August 2, 2012	Kimberly Chong
	12/837,359	March 12, 2012	Kimberly Chong
	12/837,359	October 5, 2011	Kimberly Chong
	12/837,359	March 30, 2011	Kimberly Chong
	12/837,359	December 22, 2010	Kimberly Chong
	12/860,078	February 14, 2011	Kimberly Chong
	13/168,857	July 12, 2012	Kimberly Chong
	13/168,863	March 8, 2013	Kimberly Chong
	13/168,863	October 11, 2012	Kimberly Chong
	13/168,863	August 8, 2012	Kimberly Chong

13/270,500	March 15, 2013	Kimberly Chong
13/270,500	July 30, 2012	Kimberly Chong
 13/270,500	March 14, 2012	Kimberly Chong
13/270,531	June 28, 2012	Kimberly Chong
13/270,531	March 14, 2012	Kimberly Chong
13/270,744	April 3, 2013	Kimberly Chong
13/270,744	August 6, 2012	Kimberly Chong
13/270,744	March 14, 2012	Kimberly Chong
13/270,937	February 25, 2013	Kimberly Chong Kimberly Chong
 13/270,937	June 14, 2012	Kimberly Chong Kimberly Chong
 13/270,937	March 14, 2012	Kimberly Chong Kimberly Chong
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 13/270,992	July 30, 2012	Kimberly Chong Kimberly Chong
 13/270,992	March 16, 2012	Kimberly Chong
 13/271,080	March 26, 2013	Kimberly Chong
 13/271,080	July 30, 2012	Kimberly Chong
 13/271,080	March 14, 2012	Kimberly Chong
 13/727,415	February 6, 2013	Kimberly Chong
 13/741,150	March 16, 2015	Kimberly Chong
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 13/826,613	July 22, 2014	Kimberly Chong
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 13/826,613	July 17, 2013	Kimberly Chong
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13/902,376	June 5, 2014	Kimberly Chong
13/902,376	January 7, 2014	Kimberly Chong
13/902,376	July 18, 2013	Kimberly Chong
13/963,578	September 24, 2013	Kimberly Chong
14/086,859	June 30, 2014	Kimberly Chong
14/086,859	January 27, 2014	Kimberly Chong
14/178,059	March 31, 2014	Kimberly Chong
14/223,634	April 15, 2015	Kimberly Chong
 14/273,318	October 20, 2014	Kimberly Chong
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 14/273,379	July 7, 2014	Kimberly Chong
 14/316,603	March 10, 2015	Kimberly Chong
 14/316,603	September 26, 2014	Kimberly Chong

 14/316,609	March 16, 2015	Kimberly Chong
 14/316,609	October 21, 2014	Kimberly Chong
 14/317,952	March 18, 2015	Kimberly Chong
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 14/740,097	April 8, 2016	Kimberly Chong
 14/740.097	November 6, 2015	Kimberly Chong
14/852,090	April 15, 2016	Kimberly Chong
 14/852,090	January 6, 2016	Kimberly Chong
 14/852,090	October 15, 2015	Kimberly Chong
 14/852,149	November 24, 2015	Kimberly Chong
14/857,555	April 12, 2016	Kimberly Chong
 14/857,555	November 6, 2015	Kimberly Chong
 14/857,561	April 18, 2016	Kimberly Chong
 14/857,561	March 15, 2016	Kimberly Chong Kimberly Chong
 14/857,561	February 17, 2016	Kimberly Chong Kimberly Chong
 14/857,561	January 8, 2016	Kimberly Chong Kimberly Chong
 14/857,561	October 23, 2015	Kimberly Chong Kimberly Chong
 14/858,250	November 6, 2015	Kimberly Chong Kimberly Chong
 12/605,276	June 18, 2014	J. McDonald
 12/605,276	October 18, 2013	J. McDonald
 12/605,276	December 23, 2011	J. McDonald
 12/605,276	August 24, 2011	J. McDonald
 12/605,276	February 11, 2011	J. McDonald
 13/829,545	June 6, 2014	J. McDonald
 13/830,253	June 11, 2014	J. McDonald
13/830,253	November 26, 2013	J. McDonald
14/523,610	May 11, 2016	J. McDonald
 14/852,257	October 27, 2015	J. McDonald
 14/852,257	October 6, 2015	J. McDonald
 14/852,264	April 21, 2016	J. McDonald
 14/852,264	October 21, 2015	J. McDonald
 14/857,569	May 6, 2016	J. McDonald
 14/857,569	November 19, 2015	J. McDonald
14/857,590	May 16, 2016	J. McDonald
 14/857,590	November 19, 2015	J. McDonald
 14/858,416	May 4, 2016	J. McDonald
 14/858,416	October 27, 2015	J. McDonald
 14/214,567	July 7, 2016	E. Poliakova-Georgan
 14/214,567	December 3, 2015	E. Poliakova-Georgan
 14/214,567	June 24, 2015	E. Poliakova-Georgan
[[4//:14 111/	3 311HE ZO ZUU 1	

14/213,607	April 1, 2015	D.H. Shin
14/213,607	September 18, 2014	D.H. Shin
14/214,480	August 2, 2016	D.H. Shin
14/214,480	October 19, 2015	D.H. Shin
14/214,480	April 17, 2015	D.H. Shin
14/214,480	September 19, 2014	D.H. Shin
14/942,629	August 16, 2016	D.H. Shin
13/509,331	September 16, 2013	T.A. Vivlemore
13/509,331	January 28, 2013	T.A. Vivlemore
14/108,137	April 29, 2015	T.A. Vivlemore
14/108,137	October 9, 2015	T.A. Vivlemore
14/108,137	October 3, 2014	T.A. Vivlemore
14/944,886	April 27, 2017	T.A. Vivlemore
14/944,886	September 30, 2016	T.A. Vivlemore
14/213,641	August 1, 2016	D.H. Shin
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14/213,641	March 31, 2015	D.H. Shin
14/213,641	September 18, 2014	D.H. Shin
14/213,629	May 23, 2016	E. Poliakova-Georgan
14/213,629	August 21, 2015	E. Poliakova-Georgan
14/213,629	December 29, 2014	E. Poliakova-Georgan
14/743,856	August 1, 2016	A. Hudson Bowman
14/776,533	February 28, 2017	D. Shin
14/776,533	August 3, 2016	D. Shin
15/274,719	December 16, 2016	K. Chong
15/274,772	December 30, 2016	K. Chong
15/274,772	September 18, 2017	K. Chong

The Examiner is requested to review the file histories of these applications, including cited references, Office Actions, Responses, etc., and is asked to contact Applicant's Attorney if the Examiner would like the Applicant to supply copies of any or all of the information included in any of these applications. For any of these applications, if Applicant's Attorney is not contacted by the Examiner with such a request, then it will be concluded that the Examiner has reviewed or will review the file content of these applications.

Applicant respectfully requests that the Examiner initial the blank columns next to the cited Applications and Office Actions, to indicate that the information has been considered by the Examiner. Alternatively, Applicant requests that the Examiner insert the phrase, "All references

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Application No.: 15/705,172 (Information Disclosure Statement) Docket No.: AVN-008CN41

considered except where lined through," on each page of the Information Disclosure Statement, along with the Examiner's initials.

The filing of this Information Disclosure Statement is not to be interpreted as a representation that the cited documents are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any documents herein be construed *per se* as a representation that such document is prior art. Moreover, Applicant understands the Examiner will make an independent evaluation of the cited documents.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 C.F.R. § 1.97(b)(1)). Applicant believes no fee is due with this statement.

Dated: September 22, 2017 Respectfully submitted,

Electronic signature: /Amy E. Mandragouras, Esq./

Amy E. Mandragouras, Esq. Registration No.: 36,207

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Doc code: IDS

32931

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Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 07/31/2016. OMB 0651-0031
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	Application Number		15705172
INFORMATION DIGGI COURT	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(Not for submission under 57 Of K 1.33)	Examiner Name	Not Ye	et Assigned
	Attorney Docket Number		AVN-008CN41

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Case 1:21-cv-01015-JLH Doc	Application Number 2	u 12/	18/23 Page 213 of 361 PageID 15/05172
INFORMATION BIOOL COURS	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(NOT 101 Submission under 01 01 10 1.00)	Examiner Name	Not Y	et Assigned

1	University of Westem Australia v. Academisch Ziekenhuis Leiden, Miscellaneous Order under 37 CFR 41.104(a), 4 pages, Patent Interference Nos. 106,007 and 106,008, dated December 15, 2014
2	University of Western Australia v. Academisch Ziekenhuis Leiden, Order - Authorizing Motions, Patent Interference No. 106,007, 3 pages, dated September 26, 2014 (Doc 20)
3	University of Western Australia v. Academisch Ziekenhuis Leiden, Order - Authorizing Motions, Patent Interference No. 106,007, 6 pages, dated September 23, 2014 (Doc 19)
4	University of Western Australia v. Academisch Ziekenhuis Leiden, Order - Authorizing Motions, Patent Interference No. 106,008, 6 pages, dated September 23, 2014 (Doc 18)
5	University of Western Australia v. Academisch Ziekenhuis Leiden, Order - Miscelaneous, 2 pages, Patent Interference Nos. 106,007, 106,008, 106,013, dated November 14, 2014
6	University of Western Australia v. Academisch Ziekenhuis Leiden, Order to Show Cause- 37 CFR§ 41.104(a), filed in Patent Interference No. 106,013, June 22, 2015, pages 1-3 (Doc 193).
7	University of Western Australia v. Academisch Ziekenhuis Leiden, Redeclaration, Patent Interference No. 106,008, 2 pages, dated September 23, 2014 (Doc 19)
8	University of Western Australia v. Academisch Ziekenhuis Leiden, Second Declaration of Matthew J. A. Wood, M.D., D. PHIL., Patent Interference Nos. 106,007 and 106,008, 78 pages, dated February 17, 2015 (Exhibit Number 2116 filed in interferences 106,007 and 106,008,on February 17, 2015.
9	University of Western Australia v. Academisch Ziekenhuis Leiden, Statement Concerning Initial Settlement Discussions, 3 pages, Patent Interference No. 106,013, (Doc 136), dated December 30, 2014.
10	University of Western Australia v. Academisch Ziekenhuis Leiden, Statement Concerning Settlement Discussions, 3 pages, Patent Interference No. 106,007, (Doc 242), dated December 30, 2014.
11	University of Western Australia v. Academisch Ziekenhuis Leiden, Statement Concerning Settlement Discussions, 3 pages, Patent Interference No. 106,008, (Doc 246), dated December 30, 2014.

Coop 1:21 ov 0101E 1LL Doc	sumont 40F 1 File	4 1 2 /	110/22 Dogo 214 of 261 DogolD
Case 1:21-cv-01015-JLH Doc	Application Number 3	u 1 <i>21</i>	18/23 Page 214 of 361 PageID 15/05172
INFORMATION BIOOL COURS	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(NOT TO Submission under 07 Of 16 1.33)	Examiner Name	Not Y	et Assigned

Attorney Docket Number

University of Western Australia v. Academisch Ziekenhuis Leiden, Statement Concerning Subsequent Settlement 12 Discussions, filed in Patent Interference No. 106,013, August 24, 2015, pages 1-3 (Doc 195). University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Austalia Response to Order to 13 Show Cause, filed in Patent Interference No. 106,013, July 20, 2015, pages 1-28 (Doc 194). University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Exhibit List as of 14 April 10, 2015, filed in Patent Interference No. 106,007, April 10, 2015, pages 1-10 (Doc 456). University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Exhibit List as of 15 April 10, 2015, filed in Patent Interference No. 106,008, April 10, 2015, pages 1-10 (Doc 464). University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Exhibit List as of 16 April 3, 2015, filed in Interference 106007, April 3, 2015, pages 1-10 (Doc 431). University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Exhibit List as of 17 April 3, 2015, filed in Interference 106008, April 3, 2015, pages 1-10 (Doc 439). University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Exhibit List as of 18 April 3, 2015, filed in Interference 106013, April 3, 2015, pages 1-10 (Doc 153). University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Exhibit List As of 19 October 29, 2015, filed in Patent Interference No. 106,013, October 29, 2015, pages 1-10 (Doc 199). University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Miscellaneous 20 Motion 4 (to exclude evidence), filed in Patent Interference No. 106,007, April 10, 2015, pages 1-21 (Doc 455). University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Miscellaneous 21 Motion 4 (to exclude evidence), filed in Patent Interference No. 106,008, April 10, 2015, pages 1-21 (Doc 463). University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Opposition 1 Regarding Patentability Under 35 U.S.C. § 102/103), 38 pages, Patent Interference No. 106,007, (Doc 393), dated 22 ebruary 17, 2015

Coop 1,21 av 01015 1111 Dog	sumont 40F 1 File	4 1 2/	110/22 Page 215 of 261 Page D
Case 1:21-cv-01015-JLH Doo	Application Number 4	u 12/	18/23 Page 215 of 361 PageID 15/05172
INFORMATION PLOOL COLLEGE	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(Not lot submission under or or it 1.33)	Examiner Name	Not Y	et Assigned

23	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Opposition 1 (Regarding Patentability Under 35 U.S.C. § 102/103), 39 pages, Patent Interference No. 106,008, (Doc 402), dated February 17, 2015
24	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Opposition 2 (To Retain UWA's Benefit of AU 2004903474), 31 pages, Patent Interference No. 106,008, (Doc 403), dated February 17, 2015
25	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Opposition 2 (To Retain UWA's Benefit of AU 2004903474), 37 pages, Patent Interference No. 106,007, (Doc 394), dated February 17, 2015
26	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Opposition 3 (Regarding Patentability Under 35 U.S.C. § 101), 22 pages, Patent Interference No. 106,007, (Doc 395), dated February 17, 2015
27	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Opposition 3 (Regarding Patentability Under 35 U.S.C. § 101), 22 pages, Patent Interference No. 106,008, (Doc 404), dated February 17, 2015
28	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Opposition 4 (To deny entry of AZL's Proposed New Claims 104 and 105), 36 pages, Patent Interference No. 106,007, (Doc 397), dated February 17, 2015
29	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Opposition 4 (To deny entry of AZL's Proposed New Claims 30 and 31), 36 pages, Patent Interference No. 106,008, (Doc 405), dated February 17, 2015
30	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Reply 1 (to AZL Opposition 1), filed April 3, 2015 in Interference 106007, pages 1-28 (Doc 428).
31	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Reply 1 (to AZL Opposition 1), filed April 3, 2015 in Interference 106008, pages 1-28, (Doc 436).
32	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Reply 1 (to Maintain the Interference) filed April 3, 2015 in Interference 106013, pages 1-17 (Doc 152).
33	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Reply 2 (to AZL Opposition 2) filed April 3, 2015 in Interference 106007, pages 1-22 (Doc 429)

Coop 1:21 av 0101F 1LLL Doc			110/22 Dogg 216 of 261 Dogg D
Case 1:21-cv-01015-JLH Doc	Application Number 5	u 12/	18/23 Page 216 of 361 PageID 15/05172
INFORMATION DIGGL COURT	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(Not lot submission under or or it iso)	Examiner Name	Not Y	et Assigned

34	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Reply 2 (to AZL Opposition 2) filed April 3, 2015 in Interference 106008, pages 1-22 (Doc 437).
35	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Reply 3 (for Judgment under 35 U.S.C. §135(b)) filed April 3, 2015 in Interference 106008, pages 1-19 (Doc 438).
36	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Reply 3 (to Institute an Interference) filed April 3, 2015 in Interference 106007, pages 1-17 (Doc 430).
37	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Reply 4 (To Exclude Evidence), filed in Patent Interference No. 106,007, May 12, 2015, pages 1-13 (Doc 467).
38	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Reply 4 (To Exclude Evidence), filed in Patent Interference No. 106,008, May 12, 2015, pages 1-13 (Doc 475).
39	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Request for Oral Argument, filed in Patent Interference No. 106,007, April 10, 2015, pages 1-4 (Doc 457).
40	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Request for Oral Argument, filed in Patent Interference No. 106,008, April 10, 2015, pages 1-4 (Doc 465).
41	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Request for Oral Argument, filed in Patent Interference No. 106,013, April 10, 2015, pages 1-3 (Doc 190).
42	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Request for Rehearing, filed in Patent Interference No. 106,013, October 29, 2015, pages 1-20 (Doc 198).
43	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Revised Designation of Lead and Backup Counsel, 4 pages, Patent Interference No. 106,007, (Doc 415), dated March 10, 2015.
44	University of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Revised Designation of Lead and Backup Counsel, 4 pages, Patent Interference No. 106,013, (Doc 150), dated March 10, 2015.

Case 1:21-cv-01015-JLH Dod	tument 435-1 File Application Number 6	d 12/	18/23 Page 217 of 361 PageID	
INFORMATION DISCLOSURE			2017-09-14	
	First Named Inventor Steph		phen Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
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	Attorney Docket Numb	er	AVN-008CN41	

45		ersity of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia Revised Designation ad and Backup Counsel, 5 pages, Patent Interference No. 106,008, (Doc 423), dated March 10, 2015.							
46		ersity of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia, Exhibit List as of uary 17, 2015, 8 pages, Patent Interference No. 106,007, (Doc No. 398) dated February 17, 2015.							
47		rsity of Western Australia v. Academisch Ziekenhuis Leiden, University of Western Australia, Exhibit List as of ary 17, 2015, 8 pages, Patent Interference No. 106,008, (Doc No. 406) dated February 17, 2015.							
48		University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Clean Copy of Involved Claims and Sequence, Patent Interference No. 106,007, 8 pages, dated August 1, 2014 (Doc 12)							
49		sity of Western Australia v. Academisch Ziekenhuis Leiden, UWA Clean Copy of Involved Claims and nce, Patent Interference No. 106,013, 7 pages, dated October 14, 2014 (Doc 7)							
50		iversity of Western Australia v. Academisch Ziekenhuis Leiden, UWA Clean Copy of Involved Claims and quences, Patent Interference No. 106,008, 8 pages, dated August 7, 2014 (Doc 12)							
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Name/Print	Arny E. Mandragouras, Esq.	Registration Number	36,207

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Application Number 15705172

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First Named Inventor Stephen Donald WILTON

Art Unit 1674

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	1	2000-325 08 5	JP		A	2000-11-28	MATSUO MASAFU ET AL.	IMI,			
	2	2002-010790	JP		A	2002-01-15	Matsuo Masafumi				×
	3	2002-325582	JP	001000000000000000000000000000000000000	A	2002-11-12	MATSUO, MASAFU ET AL.	JMI,			

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Case 1.21-CV-01013-JLH D00	Application Number	u 1 <i>21</i>	18/23 Page 221 of 361 PageID 15/05172	
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INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
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4	2002-340857	JP	Α	2002-11-27	Matsushita Electric Ind Co Ltd	\boxtimes
5	2002-529499	JP	А	2002-09-10	Eli Lilly and Company	\boxtimes
6	2004-509622	JP	Α	2004-04-02	Academisch Ziekenhuis Leiden	\boxtimes
7	2010-268815	JP	Α	2010-12-02	MATSUO MASAFUMI	
8	2011-101655	JP	Α	2011-05-26	Academisch Ziekenhuis Leiden	\boxtimes
9	2011-200235	JP	Α	2011-10-13	Academisch Ziekenhuis Leiden	\boxtimes
10	2014-054250	JP	Α	2014-03-27	Nippon Shinyaku Co Ltd,	\boxtimes
11	2014-111638	JP	Α	2014-06-19	Academisch, Ziekenhuis Leiden et al.	\boxtimes
12	2014-138589	JP	Α	2014-07-31	Academisch, Ziekenhuis Leiden	\boxtimes
13	4777777	JP	B2	2011-09-21	Kobe University	\boxtimes
14	4 846965	JP	B2	2011-12-28	ACADEMISCH ZIEKENHUIS LEIDEN	

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INFORMATION DISCLOSURE	Filing Date		2017-09-14	
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(Not for Submission under or or it 1.00)	Examiner Name	Not Y	et Assigned	
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15	5138722	JP	B2	2013-02-06	Matsuo Masafumi,	\boxtimes
16	5378423	JP	B2	2013-12-25	ACADEMISCH ZIEKENHUIS LEIDEN	
17	00/15780	wo	A1	2000-03-23	University College London	
18	00/44897	wo	A1	2000-08-03	AVI Biopharma, Inc.	
19	DO/78341	WO	A1	2000-12-28	Murdoch Childrens Research Institute	
20	D1/4 9 775	wo	A2	2001-07-12	AVI Biopharma, Inc.	
21	D1/72765	WO	A1	2001-10-04	ISIS Pharmaceuticals, Inc.	
22	D1/83503	WO	A2.	2001-11-08	Hybridon, Inc	
23	D1/83740	WO	A2.	2001-11-08	AVI Biopharma, Inc.	
24	D2/018656	WO	A2.	2002-03-07	AVI Biopharma, Inc.	
25	02/24906	wo	A1	2002-03-28	Academisch Ziekenhuis Leiden	

Case 1:21-cv-01015-JLH Doc	Supposet 40F 1 File		10/22 Dags 222 of 261 Dags D	
Case 1.21-CV-01013-JEH D00	Application Number 2	u 12/	15/05/172 Page 223 of 361 PageID	
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INFORMATION DISCLOSURE	First Named Inventor Steph		phen Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
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26	D2/29406	wo	A1	2002-04-11	Murto, James	
27	03/053341	wo	A2	2003-07-03	lsis Pharmaceuticals, Inc.	
28	D4/048570	wo	A1	2004-06-10	Kobe University	\boxtimes
29	D4/083432	wo	A1	2004-09-30	Academisch Ziekenhuis Leiden	
30	D4/083446	wo	A2	2004-09-30	Academisch Ziekenhuis Leiden	
31	2005/115479	wo	A2	2005-12-08	Avi Biopharma, Inc	
32	2006/000057	wo	A1	2006-01-05	University of Western Australia	
33	2006/021724	wo	A2	2006-03-02	Genethon et al.	\boxtimes
34	2006/112705	wo	A2	2006-10-26	Academisch Ziekenhuis Leiden	
35	2007/058894	wo	A2	2007-05-24	The University of North Carolina at Chapel Hill et	
36	2007/133812	wo	A2	2007-11-22	Philadelphia Health & Education Corporation, D/ B/A	

Case 1:21-cv-01015-JLH Dod	rumont 10F 1 File		10/22 Dogo 224 of 261 DogoID	
Case 1.21-CV-01015-JLH D00	tument 435-1 File Application Number 3	u 121	18/23 Page 224 of 361 PageID 15/05172	
NFORMATION DISCLOSURE TATEMENT BY APPLICANT Not for submission under 37 CFR 1.99)			2017-09-14	
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	Attorney Docket Number		AVN-008CN41	

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37 2007/135105 WO
39 2009/054725 WO A2 2009-04-30 Academisch Ziekenhuis
A2 2009-04-30 Leiden et al.
41 2009/139630 WO A2 2009-11-19 Prosensa Technologies B.V. et al. 42 2010/048586 WO A1 2010-04-29 AVI Biopharma, Inc.
41 2009/139030 WO A2 2009-11-19 B.V. et al. 42 2010/048586 WO A1 2010-04-29 AVI Biopharma, Inc.
43 2010/050801 WO A1 2010-05-06 Prosensa Technologies B.V. et al.
43 2010/050801 WO A1 2010-05-06 B.V. et al.
45 2010/115993 WO A1 2010-10-14 Association Institut de Myologie et al.
46 2010/123369 WO A1 2010-10-28 Prosensa Technologies B.V.
47 2010/136415 WO A1 2010-12-02 Universita Degli Studi di Roma "La Sapienza"

(Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 225 of 361 Page 225			ageID							
	NFORMATION DISCLOSURE STATEMENT BY APPLICANT Not for submission under 37 CFR 1.99)		Filing Date				2017-09-14				
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	48	2010/136417	wo	000000000000000000000000000000000000000	A1	2010-12-0	2	Universita Degli Studi di Roma "La Sapienza"			
	49	2010/150231	wo		A1	2010-12-2	9	Universita Degli Studi di Ferrara			
	50	2011/024077	wo		A2	2011-03-0		Inserm (Institut National de la Sante et de la Rec			
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	1	AON PS1966 Mass Spectrometry Data, Pages 8, Exhibit Number 1154 filed in Interferences 106,007 and 106,008 on February 16, 2015.									
	2	AON PS1966 UPLC Data, Pages 2, Exhibit Number 1165 filed in Interferences 106,007 and 106,008 on February 16, 2015.									
	3	AON PS1967 Mass Spectrometry Data, Pages 7, Exhibit Number 1155 filed in Interferences 106,007 and 106,008 on February 16, 2015.									
	4	AON PS1967 UPLC Data, Pages 2, Exhibit Number 1166 filed in Interferences 106,007 and 106,008 on February 16, 2015.									
	5	AON PS229 (h53AON1) HPLC Chromatograph Pages 2, Exhibit Number 1140 filed in Interferences 106,007 and 106,008 on February 16, 2015.									

6

AON PS229 (h53AON1) HPLC Method Report, Pages 3, Exhibit Number 1139 filed in Interferences 106,007 and 106,008 on February 16, 2015.

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Case 1.21-CV-01013-JEH D00	Application Number 52/1		18/23 Page 226 of 361 PageID 15/05172	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date		2017-09-14	
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Case 1:21-cv-01015-JLH Doc	Application Number 6	u 12/	/18/23 Page 227 of 361 PageID 15705172	
INFORMATION BIOGLOGUES	Filing Date		2017-09-14	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	First Named Inventor	ventor Stephen Donald WILTON		
	Art Unit		1674	
(incline additional and of the five)	Examiner Name	Not Y	et Assigned	

18	ARECHAVALA-GOMEZA, V. et al., "Comparative Analysis of Antisense Oligonucleotide Sequences for Targeted Skipping of Exon 51 During Dystrophin Pre-mRNA Splicing in Human Muscle," Human Gene Therapy, Vol. 18:798-810 (2007)
19	ARORA, Vikram et al., "c-Myc Antisense Limits Rat Liver Regeneration and Indicates Role for c-Myc in Regulating Cytochrome P-450 3A Activity," The Journal of Pharmacology and Experimental Therapeutics, Vol. 292(3):921-928 (2000)
20	Asetek Danmark A/S v. CMI USA, Inc., 2014 WL 5990699, N.D. Cal. 2014, 8 pages, (Academisch Ziekenhuis Leiden Exhibit 1237, filed May 5, 2015 in Interference 106007 and 106008).
21	ASVADI, Parisa et al., "Expression and functional analysis of recombinant scFv and diabody fragments with specificity for human RhD," Journal of Molecular Recognition, Vol. 15:321-330 (2002)
22	Australian Application No. 2004903474, 36 pages, dated July 22, 2005 (Exhibit Number 1004 filed in interferences 106008, 106007 on November 18, 2014)
23	AVI BioPharma, Inc., "Exon 51 Sequence of Dystrophin," Document D19 as filed in Opposition of European Patent EP1619249, filed June 23, 2009, 7 pages
24	AZL's PCT/NL03/00214 (the as-filed AZL PCT Application) Exhibit No. 1006, filed in Interference No. 106,007, 64 pages, December 23, 2014
25	AZL's U.S. Patent Application No. 14/295,311 and claims, as-filed June 3, 2014 ("the '311 Application") (Exhibit Number 1077 filed in interferences 106008, 106007 on December 23, 2014)
26	Azofeifa J, et al., "X-chromosome methylation in manifesting and healthy carriers of dystrophinopathies: concordance of activation ratios among first degree female relatives and skewed inactivation as cause of the affected phenotypes," Hum Genet 1995;96:167-176.
27	BEAUCAGE, S.L. et al., "Deoxynucleoside Phosphoramidites - A New Class of Key Intermediates for Deoxypolynucleotide Synthesis," Tetrahedron Letters, Vol. 22(20):1859-1862 (1981)
28	BELLARE, Priya et al., "A role for ubiquitin in the spliceosome assembly pathway," Nature Structural & Molecular Biology, Vol. 15(5):444-451 (2008) (Exhibit Number 1057 filed in interferences 106008, 106007 on November 18, 2014)

Coop 1,21 av 01015 1111 Dog			10/22 Dogo 220 of 261 DogolD		
Case 1:21-cv-01015-JLH Doo	Application Number 7	u 12/	1 12/18/23 Page 228 of 361 PageID 15/05 172		
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INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON		
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674		
(NOT TO SUBMISSION WHILE OF OF IC 1.00)	Examiner Name	Not Y	et Assigned		

29	BELLARE, Priya et al., "Ubiquitin binding by a variant Jab1/MPN domain in the essential pre-mRNA splicing factor Prp8p," RNA, Vol. 12:292-302 (2006) (Exhibit Number 1056 filed in interferences 106008,106007 on November 18, 2014)
30	BENNETT, C. Frank et al., "RNA Targeting Therapeutics: Molecular Mechanisms of Antisense Oligonucleotides as a Therapeutic Platform," Annu. Rev. Pharmacol. Toxicol., Vol. 50:259-293 (2010) (Exhibit Number 1025 filed in Interferences 106008, 106007 on November 18, 2014)
31	BERGE, Stephen M. et al., "Pharmaceutical Salts," Journal of Pharmaceutical Sciences, Vol. 66(1):1-18 (1977)
32	Bestas et al., "Design and Application of Bispecific Splice Switching Oligonucleotides," Nuc. Acid Therap., Vol. 24, No. 1, pp. 13-24 (2014), Exhibit Number 1120 filed in interferences 106,007 and 106,008 on February 17, 2015.
33	BRAASCH, Dwaine A. et al., "Locked nucleic acid (LNA): fine-tuning the recognition of DNA and RNA," Chemistry & Biology, Vol. 8:1-7 (2001) (Exhibit Number 2009 filed in interferences 106008, 106013, 106007 on November 18, 2014)
34	BRAASCH, Dwaine A. et al., "Novel Antisense and Peptide Nucleic Acid Strategies for Controlling Gene Expression," Biochemistry, Vol. 41(14):4503-4510 (2002) (Exhibit Number 2006 filed in interferences 106008, 106013, 106007 on November 18, 2014)
35	BREMMER-BOUT, Mattie et al., "Targeted Exon Skipping in Transgenic hDMD Mice: A Model for Direct Preclinical Screening of Human-Specific Antisense Oligonucleotides," Molecular Therapy, Vol. 10(2):232-240 (2004) (Exhibit Number 2024 filed in interferences 106008, 106013, 106007 on November 18, 2014)
36	Brooke MH, et al., "Clinical investigation in Duchenne dystrophy: 2. Determination of the "power" of therapeutic trials pased on the natural history," Muscle Nerve. 1983;6:91-103.
37	BROWN, Susan C. et al., "Dystrophic phenotype induced in vitro by antibody blockade of muscle alpha-dystroglycan- aminin interaction," Journal of Cell Science, Vol. 112:209-216 (1999)
38	Bushby K, et al. "Diagnosis and management of Duchenne muscular dystrophy, part 1: diagnosis, and pharmacological and psychosocial management," Lancet Neurol 2010;9:77-93.
39	Bushby KM, et al., "The clinical, genetic and dystrophin characteristics of Becker muscular dystrophy," II. Correlation of phenotype with genetic and protein abnormalities. J Neurol 1993;240: 105-112.

Coop 1,21 av 0101F 1LL Doc			110/22 Dogg 220 of 261 Dogg D	
Case 1:21-cv-01015-JLH Doc	Application Number 483-1 Filed 12/1		18/23 Page 229 of 361 PageID 15/05172	
INFORMATION BIOGLOGUES	Filing Date		2017-09-14	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	First Named Inventor	Steph	en Donald WILTON	
	Art Unit		1674	
(Not for Submission under or or it issue	Examiner Name	Not Y	et Assigned	

40	Bushby KM, et al., "The clinical, genetic and dystrophin characteristics of Becker muscular dystrophy," I. Natural history. J Neurol 1993;240:98-104.
41	CANONICO, A.E. et al., "Expression of a CMV Promoter Drive Human alpha-1 Antitrypsin Gene in Cultured Lung Endothelial Cells and in the Lungs of Rabbits," Clinical Research, Vol. 39(2):219A (1991)
42	CIRAK, Sebahattin et al., "Exon skipping and dystrophin restoration in patients with Duchenne muscular dystrophy after systemic phosphorodiamidate morpholino oligomer treatment: an open-label, phase 2, dose-escalation study," Lancet, Vol. 378(9791):595-605 (2011)
43	Claim Chart 11/233,495, Pages 57, Exhibit Number 1216 filed in Interferences 106,007 and 106,008 on February 17, 2015.
44	Claim Chart 13/550,210, Pages 45, Exhibit Number 1217 filed in Interferences 106,007 and 106,008 on February 17, 2015.
45	Claim Chart, US 7,807,816, 14 pages (Exhibit Number 1063 filed in interferences 106008, 106007 on November 18, 2014)
46	Claim Chart, US 7,960,541, 17 pages (Exhibit Number 1064 filed in interferences 106008, 106007 on November 18, 2014)
47	Claim Chart, US 8,455,636, 32 pages (Exhibit Number 1062 filed in interferences 106008, 106007 on November 18, 2014)
48	Claim Comparison Chart - Claims 11 and 29 in 13/550,210, Pages 1, Exhibit Number 1226 filed in Interferences 106,007 and 106,008 on February 17, 2015.
49	Claim Comparison Chart 13/550,210 vs 11/233,495, Pages 12, Exhibit Number 1218 filed in Interferences 106,007 and 106,008 on February 17, 2015.
50	Claim Comparison Chart 13/550,210 vs 12/198,007, Pages 1, Exhibit Number 1219 filed in Interferences 106,007 and 106,008 on February 17, 2015.

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INFORMATION DIOCE COURT	Filing Date		2017-09-14	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	First Named Inventor Stephen Donald WILTON		en Donald WILTON	
	Art Unit		1674	
	Examiner Name	Not Y	et Assigned	
	Attorney Docket Number		AVN-008CN41	

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Case 1.21-CV-01015-JEH D00	Application Number	u 12/	18/23 Page 231 of 361 PageID 15/05172	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date		2017-09-14	
	First Named Inventor Steph		hen Donald WILTON	
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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

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	Application Number		15705172	
	Filing Date		2017-09-14	
INFORMATION DISCLOSURE	First Named Inventor Stephe		en Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
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Case 1.21-CV-01013-3EH D00	Application Number 3	u 1 <i>21</i>	15705172 Page 254 01 301 Page D	
	Filing Date		2017-09-14	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	First Named Inventor Steph		hen Donald WILTON	
	Art Unit		1674	
(Not 101 Submission under 01 Of IC 1.00)	Examiner Name	Not Y	et Assigned	

1	1	Transcript of 2nd Deposition of Erik J. Sontheimer, Ph.D., dated March 12, 2015, (Academisch Ziekenhuis Leiden Exhibit 1231, filed April 3, 2015 in Interference 106007 and 106008, pages 1-185).	
2	2	Transcript of 2nd Deposition of Matthew J.A. Wood, M.D., D. Phil, dated March 5, 2015, (Academisch Ziekenhuis Leiden Exhibit 1230, filed April 3, 2015 in Interference 106007 and 106008, pages 1-117).	
3		Transcript of December 12, 2014 Teleconference with Administrative Patent Judge Schafer (rough draft) (previously filed in Int. No. 106,008 as Ex. 2114), Pages 28 Exhibit Number 1001 filed in Interference 106,013 on February 17, 2015.	
4	ŀ	Transcript of the January 21, 2015 deposition of Erik Sontheimer, Ph.D., Patent Interference Nos. 106,007 and 106,008, 98 pages, dated January 21, 2015 (Exhibit Number 2122 filed in interferences 106,007 and 106,008 on February 17, 2015.	
5	9	Transcript of the March 11, 2015 deposition of Judith van Deutekom, Ph.D., (University of Western Australia Exhibit 2141, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-168).	
6	6	Transcript of the March 12, 2015 deposition of Erik J. Sontheimer, Ph.D., (University of Western Australia Exhibit 2142, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-183).	
7	7	Transcript of the March 5, 2015 deposition of Matthew J. A. Wood, M.D., D. PHIL., (University of Western Australia Exhibit 2146, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-115).	
8	3	Transfection of AON, Pages 1, Exhibit Number 1170 filed in Interferences 106,007 and 106,008 on February 16, 2015.	
9		U.S. Food and Drug Administration Presentation at Peripheral and Central Nervous System Drugs Advisory Committee, April 25, 2016, 178 pages.	
1	10	U.S. Food and Drug Administration Statement, dated December 30, 2014 (2 pages), Exhibit Number 1204 filed in Interferences 106,007 and 106,008 on February 17, 2015.	
1	11	U.S. Patent Application No. 12/198,007, as-filed August 25, 2008 ("the '007 Application") (Exhibit Number 1073 filed in nterferences 106008, 106007 on December 23, 2014)	

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INFORMATION PIOCE COLLEGE	Filing Date		2017-09-14	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	First Named Inventor Steph		hen Donald WILTON	
	Art Unit		1674	
(NOT 101 Submission under 01 01 10 1.00)	Examiner Name	Not Y	/et Assigned	

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1	12	U.S. Patent Application No. 12/976,381, as-filed December 22, 2010 ("the '381 Application") (Exhibit Number 1074 filed in interferences 106008, 106007 on December 23, 2014)
	13	U.S. Patent Application Publication No. 2001/0056077 ("Matsuo") (Exhibit Number 1080 filed in interferences 106008, 106007 on December 23, 2014)
1	14	J.S. Patent Application Publication No. 2002/0049173 ("Bennett et al.") (Exhibit Number 1081 filed in interferences 106008, 106007 on December 23, 2014)
1	15	U.S. Patent No. 5,190,931 ("the '931 Patent") (Exhibit Number 1069 filed in interferences 106008, 106007 on December 23, 2014)
1	16	U.S. Patent No. 7,001,761 (the "Xiao" Patent) (Exhibit Number 1070 filed in interferences 106008, 106007 on December 23, 2014)
1	17	University of Western Australia Objections to Opposition Evidence, served on February 24, 2015 filed in Interference No. 106,007, Exhibit 2150, filed April 10, 2015 in Interference Nos. 106007 and 106008, pages 1-15.
1	18	University of Western Australia Objections to Opposition Evidence, served on February 24, 2015, filed in Interference No. 106,008, Exhibit 2151, filed April 10, 2015, in Interference Nos. 106007and 106008, pages 1-15.
1	19	University of Western Australia v. Academisch Ziekenhuis Leiden, Decision - Motions - 37 C.F.R. § 41.125(a), filed in Patent Interference No. 106008, September 20, 2016, pages 1-20 (Doc 480)
2	20	University of Western Australia v. Academisch Ziekenhuis Leiden, Decision - Motions - 37 CFR § 41.125(a) (Substitute), filed in Patent Interference No. 106007, May 12, 2016, pages 1-53 (Doc 476)
2	21	University of Western Australia v. Academisch Ziekenhuis Leiden, Judgment - Motions - 37 C.F.R. § 41.127 filed in Patent Interference No. 106008, September 20, 2016, pages 1-3 (Doc 481)
2	22	University of Western Australia v. Academisch Ziekenhuis Leiden, Judgment - Motions - 37 CFR § 41.127, filed in Patent Interference No. 106007, April 29, 2016, pages 1-3 (Doc 474)

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INFORMATION DISCLOSURE	First Named Inventor Steph		nen Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(NOT TO SUBMISSION WHILE OF OF IC 1.00)	Examiner Name	Not Y	et Assigned	

Attorney Docket Number

AVN-008CN41

23	European Response, Application No. 13160338.3, 4 pages, dated June 26, 2014 (Exhibit Number 2085 filed in nterferences 106008, 106013, 106007 on November 18, 2014)
24	University of Western Australia v. Academisch Ziekenhuis Leiden, Redeclaration - 37 CFR 41.203(c), filed in Patent Interference No. 106007, April 29, 2016, pages 1-2 (Doc 473)
25	University of Western Australia v. Academisch Ziekenhuis Leiden, Withdrawal and Reissue of Decision on Motions, filed in Patent Interference No. 106007, May 12, 2016, pages 1-2 (Doc 475)
26	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden List of Exhibits (as of Apr. 3, 2015), filed in Patent Interference No. 106,007, April 3, 2015, pages 1-18, (Doc 423).
27	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden List of Exhibits (as of Apr. 3, 2015), filed in Patent Interference No. 106,008, April 3, 2015, pages 1-18 (Doc 435).
28	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden List of Exhibits, 18 pages, Patent Interference No. 106,007, (Doc 391), dated February 17, 2015.
29	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden List of Exhibits, 18 pages, Patent Interference No. 106,008, (Doc 398), dated February 17, 2015.
30	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden List of Exhibits, 3 pages, Patent Interference No. 106,013, (Doc 147), dated February 17, 2015.
31	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Notice of Service of Supplemental Evidence, 3 pages, Patent Interference No. 106,007 (Doc 414), dated March 9, 2015.
32	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Notice of Service of Supplemental Evidence, 3 pages, Patent Interference No. 106,008 (Doc 422), dated March 9, 2015.
33	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 1 (35 U. S.C. § 112(a)), 83 pages, Patent Interference No. 106,008, (Doc 400), dated February 17, 2015

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Case 1:21-cv-01015-JLH Doo	Application Number 6	u 12/	18 /23 Page 237 of 361 PageID 15/05172
INFORMATION PLOOL COLLEGE	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
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(Not lot submission under or or it 1.33)	Examiner Name	Not Y	et Assigned

34	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 1 (35 U. S.C. § 112(a)), 93 pages, Patent Interference No. 106,007, (Doc 392), dated February 17, 2015
35	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 1 (Standing Order ¶ 203.1 and 37 C.F.R. § 41.202(a) and (e)), 20 pages, Patent Interference No. 106,013, (Doc 148), dated February 17, 2015
36	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 2 (Indefiniteness), 31 pages, Patent Interference No. 106,007, (Doc 396), dated February 17, 2015
37	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 2 (Indefiniteness), 32 pages, Patent Interference No. 106,008, (Doc 401), dated February 17, 2015
38	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 3 (35 U. S.C. §135(b)), 44 pages, Patent Interference No. 106,008, (Doc 397), dated February 17, 2015
39	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Opposition 3 (Standing Order § 203.1 and 37 C.F.R. § 41.202(a) and (e)), 20 pages, Patent Interference No. 106,007, (Doc 389), dated February 17, 2015.
40	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Reply 1 (For Judgment that UWA'a Claims are Unpatentable Under 35 U.S.C. §§ 102 and 103), dated April 3, 2015, filed in Patent Interference No. 106008, pages 1-17 (Doc 431).
41	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Reply 1 (For Judgment that UWA's Claims are Unpatentable Under 35 U.S.C. §§ 102 and 103), dated April 3, 2015, filed in Patent Interference No. 106007, pages 1-17 (Doc 424).
42	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Reply 2 (To Deny the Benefit of AU 2004903474), dated April 3, 2015, filed in Patent Interference No. 106007, pages 1-11(Doc 425).
43	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Reply 2 (To Deny he Benefit of AU 2004903474), dated April 3, 2015, filed in Patent Interference No. 106008, pages 1-12 (Doc 432).
44	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Reply 3 (For Judgment of Unpatentability based on Myriad) dated April 3, 2015, filed in Patent Interference No. 106007, pages 1-12 (Doc 426).

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47	of Res	sity of Western Australia v. ponsive Motion 4 to Add Tv Doc 434).						
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Case 1.21-CV-01013-JEH D00	Application Number	u 12/	18/23 Page 239 of 361 PageID 15/05172
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Signature	/Arny E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

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- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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	Application/Control No.	Applicant(s)/Patent Under Reexamination
Search Notes	15705172	WILTON ET AL.
	Examiner	Art Unit
	KIMBERLY CHONG	1674

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Symbol	Date	Examiner
C07H 21/04	9/29/2017	KC

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Symbol	Date	Examiner

	US CLASSIFICATION SE	ARCHED	
Class	Subclass	Date	Examine

 $^{^{\}star}$ See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOT	ES	
Search Notes	Date	Examiner
SEQ ID No. 195	9/29/2017	KC
PALM inventor name search	9/29/2017	KC

	INTERFERENCE SEARCH		
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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Part of Paper No.: 20171001

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		15705172	
	Filing Date		2017-09-14	
	First Named Inventor Stephen Donald WILTON		en Donald WILTON	
	Art Unit		1674	
	Examiner Name	Not Ye	et Assigned	
	Attorney Docket Number		AVN-008CN41	

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INFORMATION PLOOL COLLEGE	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(NOT TO SUBMISSION WHILE OF OF IC 1.00)	Examiner Name	Not Y	et Assigned

1	US Amendment After Non-Final Action for Application No. 11/233,495, 31 pages, dated June 24, 2010 (Exhibit Number 2073 filed in interferences 106008, 106013, 106007 on November 18, 2014)
2	US Amendment for Application No. 11/233,495, 15 pages, dated April 1, 2009 (Exhibit Number 2071 filed in nterferences 106008, 106013, 106007 on November 18, 2014)
3	US Amendment for Application No. 11/233,495, 19 pages, dated October 31, 2007 (Exhibit Number 2070 filed in nterferences 106008, 106013, 106007 on November 18, 2014)
4	US Amendment for Application No. 11/233,495, 19 pages, dated September 16, 2009 (Exhibit Number 2072 filed in Interferences 106008, 106013, 106007 on November 18, 2014)
5	US Amendment for Application No. 11/233,495, 9 pages, dated October 31, 2007 (Exhibit Number 2070 filed in nterferences 106008, 106013, 106007 on November 18, 2014)
6	US Amendment for Application No. 11/570,691, 9 pages, dated June 15, 2010 (Exhibit Number 1043 filed in interferences 106008, 106007 on November 18, 2014)
7	US Amendment for Application No. 13/271,080, 30 pages, dated January 30, 2013 (Exhibit Number 1049 filed in nterferences 106008, 106007 on November 18, 2014)
8	US Amendment for Application No. 13/902,376, 36 pages, dated March 21, 2014 (Exhibit Number 1046 filed in nterferences 106008, 106007 on November 18, 2014)
9	US Amendment in Response to Advisory Action for Application No. 11/233,495, 23 pages, dated March 14, 2011 (Exhibit Number 2074 filed in interferences 106008, 106013, 106007 on November 18, 2014)
10	US Amendments to the Claims for Application No. 11/233,495, 4 pages, dated May 8, 2014 (Exhibit Number 2077 filed in interferences 106008, 106013, 106007 on November 18, 2014)
11	US Amendments to the Claims for Application No. 14/198,992, 3 pages, dated July 16, 2014 (Exhibit Number 2079 filed in interferences 106008, 106013, 106007 on November 18, 2014)

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Case 1:21-cv-01015-JLH Doc	Application Number 3	u 12/	18/23 Page 244 of 361 PageID 15/05172
	Filing Date		2017-09-14
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a submission under or or it 1.55)	Examiner Name	Not Y	et Assigned

Attorney Docket Number

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US Applicant-Initiated Interview Summary and Notice of Allowance for Application No. 13/550,210, 9 pages dated May 12 19, 2014 (Exhibit Number 2076 filed in interferences 106008, 106013, 106007 on November 18, 2014) JS application as-filed and Preliminary Amendment for Application No. 13/550,210, 59 pages dated July 16, 2012 13 Exhibit Number 2087 filed in interferences 106008, 106013, 106007 on November 18, 2014) JS Application as-filed for application No. 14/198,992, 52 pages, dated March 6, 2014 (Exhibit Number 2086 filed in 14 nterferences 106008, 106013, 106007 on November 18, 2014) US Application as-filed, Application Data Sheet, and Preliminary Amendment for Application No. 12/837,359, 101 15 pages, dated July 15, 2010 (Exhibit Number 2100 filed in interferences 106008, 106013, 106007 on November 18, 2014) US Application for Letters Patent for Application No. 11/233,495 as-filed and preliminary amendment, 77 pages, dated 16 September 21, 2005 (Exhibit Number 2095 filed in interferences 106008, 106013, 106007 on November 18, 2014) US Application No. 11/233,495, 74 pages; excerpts of prosecution history for including: US Supplemental Amendment and Response dated May 8, 2014; Second Supplemental Response dated July 5, 2013; Supplemental Amendment 17 dated June 26, 2013; Amendment after Non-final Action dated November 1, 2010; Amendment under 35 USC 1.114 dated September 16, 2009 (Exhibit Number 2054 filed in interferences 106008, 106013, 106007 on November 18, 2014) US Application No. 14/198,992, 17 pages; excerpts of prosecution history including: Supplemental Amendment dated 18 July 16, 2014; Response to Non-Final Office Action dated July 14, 2014 (Exhibit Number 2056 filed in interferences 106008, 106013, 106007 on November 18, 2014) US Application No. 14/248,279, 29 pages; excerpts of prosecution history including: Amendment under 37 CFR 1.312 dated September 19, 2014; Amendment in Response to Final Office Action dated August 7, 2014; Declaration under 19 37 CFR 1.132 dated May 26, 2014; Declaration under 37 CFR 1.132 dated May 27, 2014; Response dated June 3, 2014 (Exhibit Number 2057 filed in interferences 106008, 106013, 106007 on November 18, 2014) US Application No.13/550,210, 27 pages; excerpts of prosecution history including: Response and Amendment dated 20 May 12, 2014; Response to Non-Final Office Action dated January 21, 2014; Second Preliminary Amendment dated January 3, 2013 (Exhibit Number 2055 filed in interferences 106008, 106013, 106007 on November 18, 2014) JS claim amendments for Application No. 13/550,210, 3 pages, dated May 12, 2014 (Exhibit Number 2078 filed in 21 nterferences 106008, 106013, 106007 on November 18, 2014) JS Claims for Application No. 12/976,381, 1 page, dated December 22, 2010 (Exhibit Number 2065 filed in 22 nterferences 106008, 106013, 106007 on November 18, 2014)

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Case 1:21-cv-01015-JLH Doo	Application Number 4	u 12/	18/23 Page 245 of 361 PageID 15/05172
INFORMATION DIGGL COURS	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(NOT 101 Submission under 01 01 10 1.00)	Examiner Name	Not Y	et Assigned

23	JS Declaration of Richard K. Bestwick, for Application No. 11/570,691, 5 pages, dated June 15, 2010 (Exhibit Number 1044 filed in interferences 106008, 106007 on November 18, 2014)
24	US E-mail from Patent Trial and Appeal Board to Danny Huntington, 2 pages, dated October 9, 2014 (Exhibit Number 2002 filed in interferences 106008 on October 17, 2014)
25	US Non-Final Office Action for Application No. 11/570,691, 16 pages, dated March 15, 2010 (Exhibit Number 1042 filed in interferences 106008, 106007 on November 18, 2014)
26	US Office Action for Application No. 13/271,080, 25 pages, dated July 30, 2012 (Exhibit Number 1048 filed in Interferences 106008, 106007 on November 18, 2014)
27	US Office Action for Application No. 13/550,210, 12 pages, dated September 27, 2013 (Exhibit Number 2080 filed in Interferences 106008, 106013, 106007 on November 18, 2014)
28	US Office Action for Application No. 13/902,376, 7 pages, dated January 7, 2014 (Exhibit Number 1045 filed in Interferences 106008, 106007 on November 18, 2014)
29	US Patent Application No. 12/198,007 as-filed, 64 pages, dated August 25, 2008 (Exhibit Number 2092 filed in Interferences 106008, 106013, and 106007 on November 18, 2014)
30	US Preliminary Amendment and application as-filed for Application No. 12/976,381,64 pages, dated December 22, 2010 (Exhibit No. 2089 filed in Interferences 106007, 106008, and 106013 on November 18, 2014)
31	US Preliminary Amendment for Application No. 11/233,495, 10 pages, dated September 21, 2005 (Exhibit Number 2069 filed in interferences 106008, 106013, 106007 on November 18, 2014)
32	US Preliminary Remarks for Application No. 14/198,992, 1 page, dated March 6, 2014 (Exhibit Number 2097 filed in Interferences 106008, 106013, 106007 on November 18, 2014)
33	US Proposed Terminal Disclaimer for Application No. 12/860,078, 2 pages, dated October 17, 2014 (Exhibit Number 2001 filed in interference 106008 on October 17, 2014)
33	

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Case 1:21-cv-01015-JLH Doc	Application Number 5	u 12/	18 /23 Page 246 of 361 PageID 15705172
INTEGRALATION DIGGI COURT	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(NOT 101 SUBMISSION WHILE OF OTHE 1.00)	Examiner Name	Not Y	et Assigned

Attorney Docket Number

AVN-008CN41

34	US Remarks for Application No. 14/248,279, 2 pages, dated August 27, 2014 (Exhibit Number 2110 filed in nterferences 106008, 106013, 106007 on November 18, 2014)	
35	US Response and amendments for Application No. 13/550,210, 12 pages, dated January 21, 2014 (Exhibit Number 2063 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
36	US Revised Figure 4H, US Application No. 13/271,080, 1 page (Exhibit Number 1050 filed in interferences 106008, 106007 on November 18, 2014)	
37	US Terminal Disclaimer for Application No. 14/198,992, 1 page, dated July 15, 2014 (Exhibit Number 2096 filed in Interferences 106008, 106013, 106007 on November 18, 2014)	
38	US Terminal Disclaimer for Application No. 14/248,279, 1 page, dated August 7, 2014 (Exhibit Number 2109 filed in nterferences 106008, 106013, 106007 on November 18, 2014)	
39	US Track One Request, Application as-filed, and Application Data Sheet for Application No. 14/248,279, 68 pages, dated April 8, 2014 (Exhibit Number 2108 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
40	US Transmittal, application as-filed, and Preliminary Amendment for Application No. 11/570,691, 102 pages, dated December 15, 2006 (Exhibit Number 2103 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
41	US Transmittal, application as-filed, and Preliminary Amendment for Application No. 13/270,992, 101 pages, dated October 11, 2011 (Exhibit Number 2098 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
42	US Transmittal, application as-filed, and Preliminary Amendment for Application No. 13/271,080, 115 pages, dated October 11, 2011 (Exhibit Number 2111 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
43	US Updated Filing Receipt for Application No. 13/550,210, 3 pages, dated December 11, 2012 (Exhibit Number 2044 filed in interferences 106008, 106013, 106007 on November 18, 2014)	
44	USPTO "2014 Procedure for Subject Matter Eligibility Analysis of Claims Reciting or InvolvingNatural Products" ("the March Guidance"), 19 pages, (Exhibit Number 2118 filed in interferences 106,007 and 106,008 on February 17, 2015.	

	tument 435-1 File Application Nymber Filing Date		18/23 Page 247 of 361 PageID 15/05172 2017-09-14		
INFORMATION DISCLOSURE	First Named Inventor	Steph	I nen Donald WILTON		
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit	•	1674		
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	45		USPTO Written Description Training Materials, Revised March 25, 2008, Example 12 (Exhibit Number 1068 filed in nterferences 106008, 106007 on December 23, 2014)													
	46		UWA Clean Copy of Claims and Sequence, as filed in Interference No. 106,007 on August 1, 2014 (Paper 12), 8 pages, (Exhibit Number 2126 filed in interferences 106,007 and 106,008 on February 17, 2015.													
	47		UWA Clean Copy of Claims and Sequence, as filed in Interference No. 106,007 on August 7, 2014 (Paper 12), 8 pages, (Exhibit Number 2127 filed in interferences 106,007 and 106,008 on February 17, 2015.													
	48		UWA Motion 1 (For Judgment Under 35 § 112(a)) from Int. No. 106,007 (PN 210), Pages 40, Exhibit Number 1005 filed in Interference 106,013 on February 17, 2015.													
	49	UWA Motion 1 (For Judgment Under 35 § 112(a)) from Int. No. 106,008 (Doc 213), Pages 38, Exhibit Number 1004 filed in Interference 106,013 on February 17, 2015.														
	50	UWA submission of teleconference transcript , 28 pages, dated December 12, 2014 (Exhibit Number 2114 filed in Interferences 106008 and 106007 on December 12, 2014)														
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	Filing Date		2017-09-14	
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON	
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Arny E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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	Application Number		15705172	
	Filing Date		2017-09-14	
INFORMATION DISCLOSURE	First Named Inventor Stephe		phen Donald WILTON	
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Case 1:21-cv-01015-JLH Doo	Application Number	u 12/	18 /23 Page 251 of 361 PageID 15/05172	
INFORMATION PLOOL COLLEGE	Filing Date		2017-09-14	
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(NOT TO SUBMISSION WHILE OF OF IC 1.00)	Examiner Name	Not Y	et Assigned	

1	Valorization Memorandum published by the Dutch Federation of University Medical Centers in March 2009, (University of Western Australia Exhibit 2140, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-33).
2	VAN DEUTEKOM et al., "Antisense-induced exon skipping restores dystrophin expression in DMD patient derived muscle cells," HUMAN MOLECULAR GENETICS Vol. 10, No. 15: 1547-1554 (2001) (Exhibit Number 1084 filed in nterferences 106008, 106007 on December 23, 2014)
3	van Deutekom et al., "Local Dystrophin Restoration with Antisense Oligonucleotide PRO051," N. Engl. J. Med., Vol. 357, No. 26, pp. 2677-2686 (December, 2007), Exhibit Number 1213 filed in Interferences 106,007 and 106,008 on February 17, 2015.
4	VAN DEUTEKOM, Judith C. T. et al., "Advances in Duchenne Muscular Dystrophy Gene Therapy," Nature Reviews Genetics, Vol. 4(10):774-783 (2003)
5	Van Ommen 2002 PCT (WO 02/24906 AI), 43 pages,(Exhibit Number 1071 filed in interferences 106008, 106007 on December 23, 2014)
6	van Putten M, et al., "The Effects of Low Levels of Dystrophin on Mouse Muscle Function and Pathology. PLoS ONE 2012;7:e31937, 13 pages
7	Van Vliet, Laura et al., "Assessment of the Feasibility of Exon 45-55 Multiexon Skipping for Duchenne Muscular Dystrophy", BMC Medical Genetics, Vol.9(1):105 (2008)
8	VERMA, Sandeep et al., "Modified Oligonucleotides: Synthesis and Strategy for Users," Annu. Rev. Biochem., Vol. 67:99-134 (1998) (Exhibit Number 1040 filed in interferences 106008, 106007 on November 18, 2014)
9	Vikase Corp. v. Am. Nat'l. Can Co., No. 93-7651, 1996 WL 377054 (N.D. III. July 1, 1996), 3 pages (Exhibit Number 2152 filed in interference 106013 on October 29, 2015)
10	VOIT, Thomas et al., "Safety and efficacy of drisapersen for the treatment of Duchenne muscular dystrophy (DEMAND II): an exploratory randomised, placebo-controlled phase 2 study," Lancet Neurol., Vol. 13:987-996 (2014) (Exhibit Number 2037 filed in interferences 106008, 106013, 106007 on November 18, 2014)
11	VOLLOCH, Vladimir et al., "Inhibition of Pre-mRNA Splicing by Antisense RNA in Vitro: Effect of RNA Containing Sequences Complementary to Exons," Biochemical and Biophysical Research Communications, Vol. 179 (3):1593-1599 (1991)

Coop 1,21 av 0101F 1LL Doc	sumont 40F 1 File	4 1 2 /	110/22 Page 252 of 261 Page D		
Case 1:21-cv-01015-JLH Doc	Application Number 1	u 12/	18/23 Page 252 of 361 PageID 15/05172		
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674		
(NOT 101 Submission and of of it 1.00)	Examiner Name	Not Y	et Assigned		

	Wahlestedt et al., "Potent and nontoxic antisense oligonucleotides containing locked nucleic acids," PNAS, Vol. 97, No. 10, pp. 5633-5638 (May, 2000), Exhibit Number 1201 filed in Interferences 106,007 and 106,008 on February 17, 2015.	
	Wang et al., "In Vitro evaluation of novel antisense oligonucleotides is predictive of in vivo exon skipping activity for Duchenne muscular dystrophy," J. Gene Medicine, Vol. 12, pp. 354-364 (March, 2010), Exhibit Number 1115 filed in Interferences 106,007 and 106,008 on February 17, 2015.	
	WANG, Chen-Yen et al., "pH-sensitive immunoliposomes mediate target-cell-specific delivery and controlled expression of a foreign gene in mouse," Proc. Natl. Acad. Sci. USA, Vol. 84:7851-7855 (1987)	
15	WATAKABE, Akiya et al., "The role of exon sequences in splice site selection," Genes & Development, Vol. 7:407-418 (1993)	
16	Watanabe et al., "Plasma Protein Binding of an Antisense Oligonucleotide Targeting Human ICAM-1 (ISIS 2302)," Oligonucleotides, Vol. 16, pp. 169- 180 (2006), Exhibit Number 1197 filed in Interferences 106,007 and 106,008 on February 17, 2015.	
17	WHO Drug Information, International Nonproprietary Names for Pharmaceutical Substances (INN), Proposed INN: List 115, "CASIMERSEN," vol. 30(2): 3 pages (2016)	
	WHO Drug Information, International Nonproprietary Names for Pharmaceutical Substances (INN), Proposed INN: List 115, "Golodirsen," vol. 30(2): 3 pages (2016)	
	WIJNAENDTS, L.C.D. et al., "Prognostic importance of DNA flow cytometric variables in rhabdomyosarcomas," J. Clin. Pathol., Vol. 46:948-952 (1993) (Exhibit Number 1041 filed in interferences 106008, 106007 on November 18, 2014)	
20	Wilton et al. (2007) "Antisense Oligonucleotide-induced Exon Skipping Across the Human Dystrophin Gene Franscript," Molecular Therapy 15(7):1288-1296, 10 pages, (Exhibit Number 2121 filed in interferences 106,007 and 106,008 on February 17, 2015	
21	WILTON, Stephen D. et al., "Antisense oligonucleotides in the treatment of Duchenne muscular dystrophy: where are we now?" Neuromuscular Disorders, Vol. 15:399-402 (2005)	
	WILTON, Stephen D. et al., "Specific removal of the nonsense mutation from the mdx dystrophin mRNA using antisense oligonucleotides," Neuromuscular Disorders, Vol. 9:330-338 (1999)	

Coop 1:21 ov 0101E 1LL Doc	rumant 10F 1 File	4 1 2/	110/22 Dogg 2F2 of 261 Dogg ID			
Case 1:21-cv-01015-JLH Doc	Application Number 2	u 12/	18/23 Page 253 of 361 PageID 15/05172			
INFORMATION BIOGLOGUES	Filing Date		2017-09-14			
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674			
(incline additional and of the five)	Examiner Name	Not Y	et Assigned			

Attorney Docket Number

23	WO 2002/24906 A1 of AZL, (University of Western Australia Exhibit 2134, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-43.)
24	WO 2004/083432 (the published AZL PCT Application, "Van Ommen"), Pages 71, Exhibit Number 1003 filed in Interference 106,013 on February 17, 2015.
25	WO 2013/112053 A1, (University of Western Australia Exhibit 2130, filed April 3, 2015 in Interferences 106007, 106008, and 106013, pages 1-177).
26	WOLFF, Jon A. et al., "Direct Gene Transfer into Mouse Muscle in Vivo," Science, Vol. 247(4949 Pt. 1):1465-1468 (1990)
27	WONG, Marisa L. et al., "Real-time PCR for mRNA quantitation," BioTechniques, Vol. 39:75-85 (2005) (Exhibit Number 1066 filed in interferences 106008, 106007 on November 18, 2014)
28	Wood, "Toward an Oligonucleotide Therapy for Duchenne Muscular Dystrophy: A Complex Development Challenge," Science Translational Medicine, Vol. 2, No. 25, pp. 1-6 (March, 2010), Exhibit Number 1116 filed in interferences 106,007 and 106,008 on February 17, 2015,Doc 335.
29	Written Opinion for Application No. PCT/AU2010/001520, 6 pages, dated January 21, 2011
30	WU, B. et al., "Dose-dependent restoration of dystrophin expression in cardiac muscle of dystrophic mice by systemically delivered morpholino," Gene Therapy, Vol. 17:132-140 (2010)
31	WU, Bo et al., "Effective rescue of dystrophin improves cardiac function in dystrophin-deficient mice by a modified morpholino oligomer," PNAS, Vol. 105(39):14814-14819 (2008)
32	WU, Bo et al., "Targeted Skipping of Human Dystrophin Exons in Transgenic Mouse Model Systemically for Antisense Drug Development," PLoS One, vol. 6(5):e19906, 11 pages (2011)
33	WU, George Y. et al., "Receptor-mediated Gene Delivery and Expression in Vivo," The Journal of Biological Chemistry, Vol. 263(29):14621-14624 (1988)
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Coop 1,21 av 0101F 1LL Doc	sumont 40F 1 File	4 1 2 /	110/22 Dogo 254 of 261 DogolD		
Case 1:21-cv-01015-JLH Doc	Application Number 3	u 1 <i>21</i>	18/23 Page 254 of 361 PageID 15/05172		
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STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674		
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Attorney Docket Number

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34	WU, George Y. et al., "Receptor-mediated in Vitro Gene Transformation by a Soluble DNA Carrier System," The Journal of Biological Chemistry, Vol. 262(10):4429-4432 (1987)
35	Wyatt et al. "Site-specific cross-linking of mammalian U5 snRNP to the 5' splice site before the first step of pre-mRNA splicing," Genes & Development, Vol. 6, pp. 2542-2553 (1992), Exhibit Number 1198 filed in Interferences 106,007 and 106,008 on February 17, 2015.
36	Yin et al., "A fusion peptide directs enhanced systemic dystrophin exon skipping and functional restoration in dystrophin-deficient mdx mice," Human Mol. Gen., Vol. 18, No. 22, pp. 4405-4414 (2009), Exhibit Number 1200 filed in Interferences 106,007 and 106,008 on February 17, 2015.
37	Yin et al., "Cell Penetrating peptide-conjugated antisense cardiac dystrophin expression and function," Human Mol. Gen., Vol. 17, No. 24, pp. 3909-3918 (2008), Exhibit Number 1199 filed in Interferences 106,007 and 106,008 on February 17, 2015.
38	Yin et al., "Functional Rescue of Dystrophin-deficient mdx Mice by a ChimericPeptide-PMO," Mol. Therapy, Vol. 18, No. 10, pp. 1822-1829 (October, 2010), Exhibit Number 1117 filed in interferences 106,007 and 106,008 on February 17, 2015.
39	Yokota et al., "Efficacy of Systematic Morpholino Exon-Skipping in Duchenne Dystrophy Dogs," American Neurological Assoc., Vol. 65, No. 6, pp. 667-676 (June, 2009), Exhibit Number 1214 filed in Interferences 106,007 and 106,008 on February 17, 2015.
40	Zoltek Corp. v. U.S., 95 Fed. Cl. 681 (2011), 23 pages, (Academisch Ziekenhuis Leiden Exhibit 1236, filed May 5, 2015 in Interference 106007 and 106008).
41	European Search Report for Application No. 12162995.0, 11 pages, dated January 15, 2013
42	HAREL-BELLAN, Annick et al., "Specific Inhibition of c-myc Protein Biosynthesis Using an Antisense Synthetic Deoxy- Oligonucleotide in Human T Lymphocytes," The Journal of Immunology, Vol. 140(7):2431-2435 (1988)
43	HUDZIAK, Robert M. et al., "Resistance of Morpholino Phosphorodiamidate Oligomers to Enzymatic Degradation," Antisense & Nucleic Acid Drug Development, Vol. 6:267-272 (1996)
44	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden's List of Exhibits as pf May 5, 2015, filed in Patent Interference No. 106,007, May 5, 2015, pages 1-18 (Doc 466).

Case 1:21-cv-01015-JLH Doc	vimont 42F 1 File	4 1 2/	110/22 Dags 2FF of 261 Dags D		
Case 1.21-CV-01013-JEH D00	rument 435-1 File Application Number 4	u 12/	18/23 Page 255 of 361 PageID 15/05172		
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	45	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden's List of Exhibits as of May 5, 2015, filed in Patent Interference No. 106,008, May 5, 2015, pages 1-18 (Doc 474).											
	University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Exhibit List, 10 pages, Patent Interference No. 106,008, dated December 23, 2014 (Doc 244)												
	47	University of Western Australia v. Academisch Ziekenhuis Leiden, UWA Motion 3 Requesting an additional Interference between UWA U.S. Patent No. 8,455,636 and AZL USSN 14/248,279, 36 pages, Patent Interference No. 106,007, dated November 18, 2014 (Doc 212)											
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Attorney Docket Number

1	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Responsive Motion 4 (To Add Two New Claims), 65 pages, Patent Interference No. 106,007, (Doc 241), dated December 23, 2014.
2	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden Statement Regarding Oral Argument, filed in Patent Interference No. 106,013, April 10, 2015, pages 1-3 (Doc 189).
3	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden's Opposition 4 (To Not Exclude Evidence), filed in Patent Interference No. 106,007, May 5, 2015, pages 1-22 (Doc 465).
4	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden's Opposition 4 (To Not Exclude Evidence), filed in Patent Interference No. 106,008, May 5, 2015, pages 1-21 (Doc 473).
5	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden's Second Supplemental Notice of Real Party in Interest, filed in Patent Interference No. 106,007, May 28, 2015, pages 1-3, (Doc 468)
6	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden's Second Supplemental Notice of Real Party in Interest, filed in Patent Interference No. 106,008, May 28, 2015, pages 1-3, (Doc 476)
7	University of Western Australia v. Academisch Ziekenhuis Leiden, Academisch Ziekenhuis Leiden's Second Supplemental Notice of Real Party in Interest, filed in Patent Interference No. 106013, May 28, 2015, pages 1-3, (Doc 191)
8	University of Western Australia v. Academisch Ziekenhuis Leiden, ACADEMISH ZIEKENHUIS LEIDEN SUPPLEMENTAL NOTICE OF REAL PARTY IN INTEREST, Pages 3, DOC 149, Patent Interference No. 106,013 dated February 23, 2015.
9	University of Western Australia v. Academisch Ziekenhuis Leiden, ACADEMISH ZIEKENHUIS LEIDEN SUPPLEMENTAL NOTICE OF REAL PARTY IN INTEREST, Pages 3, Doc 413, Patent Interference No. 106,0007 dated February 23, 2015.
10	University of Western Australia v. Academisch Ziekenhuis Leiden, ACADEMISH ZIEKENHUIS LEIDEN SUPPLEMENTAL NOTICE OF REAL PARTY IN INTEREST, Pages 3, Doc 421, Patent Interference No. 106,0008 dated February 23, 2015.
11	University of Western Australia v. Academisch Ziekenhuis Leiden, Amendment and Response, US Application No. 11/233,495, Filed 1/22/2014, 8 pages, (Exhibit Number 2117 filed in interferences 106,007 and 106, 008, on February 17, 2015.

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12	University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Annotated Copy of Claims, Patent Interference No. 106,007, 15 pages, dated August 15, 2014 (Doc 15)
13	University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Annotated Copy of Claims, Patent Interference No. 106,008, 14 pages, dated August 21, 2014 (Doc 14)
14	University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Annotated Copy of Claims, Patent Interference No. 106,013, 14 pages, dated October 27, 2014 (Doc 16)
15	University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Clean Copy of Claims and Sequence, filed in Patent Interference No. 106,013, 5 pages, dated October 15, 2014 (Doc 12)
16	University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Corrected Notice of Related Proceedings, Patent Interference No. 106,007, 3 pages, dated August 1, 2014 (Doc 13)
17	University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Exhibit List, 10 pages, Patent Interference No. 106,007 dated December 23, 2014 (Doc 240)
18	University of Western Australia v. Academisch Ziekenhuis Leiden, AZL List of Exhibits, 9 pages, Patent Interference No. 106,007, dated November 18, 2014 (Doc 209)
19	University of Western Australia v. Academisch Ziekenhuis Leiden, Azl List of Exhibits, as of November 18, 2014, 9 pages, Patent Interference No. 106,008, dated November 18, 2014 (Doc 212)
20	University of Western Australia v. Academisch Ziekenhuis Leiden, AZL List of Proposed Motions, Patent Interference No. 106,007, 6 pages, dated September 10, 2014 (Doc 16)
21	University of Western Australia v. Academisch Ziekenhuis Leiden, AZL List of Proposed Motions, Patent Interference No. 106,008, 8 pages, dated September 10, 2014 (Doc 15)
22	University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Motion 1 (For Judgment that UWA's Claims are Unpatentable Under 35 U.S.C. sections 102 and 103), 69 pages, Patent Interference No. 106,007, dated November 18, 2014 (Doc 181)

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Case 1:21-cv-01015-JLH Doc	Application Number	u 12/	18/23 Page 261 of 361 PageID 15/05172
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University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Motion 1 (For Judgment that UWA's Claims are Unpatentable Under 35 U.S.C. sections 102 and 103), 69 pages, Patent Interference No. 106,008, dated November 23 18, 2014 (Doc 184) University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Motion 2 (To Deny UWA the Benefit of AU 24 2004903474), 23 pages, Patent Interference No. 106,007, dated November 18, 2014 (Doc 26) University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Motion 2 (To Deny UWA the Benefit of AU 25 2004903474), 24 pages, Patent Interference No. 106,008, dated November 18, 2014 (Doc 29) University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Motion 3 (For Judgment of Unpatentability 26 pased on Myriad) 20 pages, Patent Interference No. 106,008, dated November 18, 2014 (Doc 30) University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Motion 3 (For Judgment of Unpatentability 27 based on Myriad), 19 pages, Patent Interference No. 106,007, dated November 18, 2014 (Doc 27) University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Notice of Related Proceedings, Patent 28 nterference No. 106,007, 3 pages, dated July 31, 2014 (Doc 6) University of Western Australia v. Academisch Ziekenhuis Leiden, AZL Notice of Related Proceedings, Patent 29 Interference No. 106,008, 3 pages, dated August 5, 2014 (Doc 7) Jniversity of Western Australia v. Academisch Ziekenhuis Leiden, AZL Notice of Related Proceedings, Patent 30 nterference No. 106,013, 3 pages, dated October 15, 2014 (Doc 11) University of Western Australia v. Academisch Ziekenhuis Leiden, Clean Copy of Claims and Sequences, 5 pages, 31 dated August 5, 2014 (Exhibit Number 2047 filed in interferences 106008, 106013, 106007 on November 18, 2014) University of Western Australia v. Academisch Ziekenhuis Leiden, Clean Copy of Claims and Sequences, 5 pages, 32 dated July 31, 2014 (Exhibit Number 2045 filed in interferences 106008, 106013, 106007 on November 18, 2014) University of Western Australia v. Academisch Ziekenhuis Leiden, Clean Copy of Claims and Sequences, 5 pages, 33 dated October 15, 2014 (Exhibit Number 2050 filed in interferences 106008, 106013, 106007 on November 18, 2014)

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INFORMATION DISCLOSURE	First Named Inventor	Steph	phen Donald WILTON		
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674		
(NOT TO SUBMISSION WHILE OF OF IC 1.33)	Examiner Name	Not Y	et Assigned		

Attorney Docket Number

AVN-008CN41

University of Western Australia v. Academisch Ziekenhuis Leiden, Decision - Motions - 37 CFR § 41.125(a), filed in Patent Interference No. 106007, April 29, 2016, pages 1-53 (Doc 472)
University of Western Australia v. Academisch Ziekenhuis Leiden, Decision- Motions- 37 CFR§ 41.125(a), filed in Patent Interference No. 106,013, June 22, 2015, pages 1-12 (Doc 192).
University of Western Australia v. Academisch Ziekenhuis Leiden, Decision- Priority 37 CFR § 41.125 (a), 18 pages, Patent Interference No. 106,013, (Doc 196), dated September 29, 2015.
University of Western Australia v. Academisch Ziekenhuis Leiden, Decision-Rehearing -37 CFR § 41.125(c), filed in Patent Interference No. 106,013, December 29, 2015, pages 1-12 (Doc 202).
University of Western Australia v. Academisch Ziekenhuis Leiden, Declaration of Erik Sontheimer dated November 17, 2014, Exhibit 1012 filed in Patent Interference Nos. 106,007 and 106,008, 112 pages, filed November 18, 2014
University of Western Australia v. Academisch Ziekenhuis Leiden, Declaration of Interference, Patent Interference No. 106,007, 7 pages, dated July 18, 2014 (Doc 1)
University of Western Australia v. Academisch Ziekenhuis Leiden, Declaration of Interference, Patent Interference No. 106,008, 7 pages, dated July 24, 2014 (Doc 1)
University of Western Australia v. Academisch Ziekenhuis Leiden, Declaration of Interference, Patent Interference No. 106,013, 8 pages, dated September 29, 2014 (Doc 1)
University of Western Australia v. Academisch Ziekenhuis Leiden, Declaration of Matthew J.A. Wood, Patent Interference Nos. 106,007, 106,008 and 106,013, 184 pages, dated November 18, 2014 (Exhibit Number 2081 filed in Interferences 106008, 106013, 106007 on November 18, 2014)
University of Western Australia v. Academisch Ziekenhuis Leiden, Joint Stipulation regarding Time Periods 2, 3 and 4, 3 pages, Patent Interference No. 106,013, (Doc 135), dated January 25, 2015.
University of Western Australia v. Academisch Ziekenhuis Leiden, Joint Stipulation regarding Time Periods 3-4, 4 pages, Patent Interference No. 106,007, (Doc 243), dated January 29, 2015.
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	48	University of Western Australia v pages, Patent Interference No. 1			oint Stipulation Regarding Time Periods 4-6, 4 2015.				
	49	University of Western Australia v pages, Patent Interference No.10			oint Stipulation Regarding Time Periods 4-6, 4 , 2015.				
	50	University of Western Australia v Interference No. 106,013, (Doc 1			udgment-37 CFR § 41.127, 2 pages, Patent				

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10/01/2017 **Examiner Signature** Date Considered /KIMBERLY CHONG/ (10/01/2017)

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2017-09-22
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

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APPLICATION NUMBER FILING OR 371(C) DATE

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15/705,172

09/14/2017

Stephen Donald WILTON

AVN-008CN41 **CONFIRMATION NO. 2879**

PUBLICATION NOTICE

Nelson Mullins Riley & Scarborough LLP/Sarepta

One Post Office Square Boston, MA 02109

Title: ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE **THEREOF**

Publication No.US-2018-0002697-A1 Publication Date:01/04/2018

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Dated: January 5, 2018

Electronic Signature for Amy F. Mandragouras, Esq.:

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(PATENT)

Docket No.: AVN-008CN41

Examiner: K. Chong

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Stephen Donald Wilton *et al.*

Application No.: 15/705,172 Confirmation No.: 2879

Filed: September 14, 2017 Art Unit: 1674

For: ANTISENSE OLIGONUCLEOTIDES FOR

INDUCING EXON SKIPPING AND METHODS OF USE THEREOF

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

AMENDMENT IN RESPONSE TO NON-FINAL OFFICE ACTION UNDER 37 C.F.R. § 1.111

Dear Sir:

In response to the Office Action dated October 5, 2017 (Paper No. 20171001), please amend the above-identified U.S. patent application as follows:

The Listing of the Claims begins on page 2 of this paper.

Remarks/Arguments begin on page 3 of this paper.

LISTING OF THE CLAIMS

- 1. (Canceled)
- 2. (**Previously Presented**) An antisense oligonucleotide of 20 to 31 bases comprising a base sequence that is 100% complementary to consecutive bases of a target region of exon 53 of the human dystrophin pre-mRNA, wherein the target region is within annealing site H53A(+23+47) and annealing site H53A(+39+69), wherein the base sequence comprises at least 12 consecutive bases of CUG AAG GUG UUC UUG UAC UUC AUC C (SEQ ID NO: 195), in which uracil bases are thymine bases, wherein the antisense oligonucleotide is a morpholino antisense oligonucleotide, and wherein the antisense oligonucleotide induces exon 53 skipping; or a pharmaceutically acceptable salt thereof.
- 3. (**Previously Presented**) A pharmaceutical composition comprising: (i) an antisense oligonucleotide of 20 to 31 bases comprising a base sequence that is 100% complementary to consecutive bases of a target region of exon 53 of the human dystrophin pre-mRNA, wherein the target region is within annealing site H53A(+23+47) and annealing site H53A(+39+69), wherein the base sequence comprises at least 12 consecutive bases of CUG AAG GUG UUC UUG UAC UUC AUC C (SEQ ID NO: 195), in which uracil bases are thymine bases, wherein the antisense oligonucleotide is a morpholino antisense oligonucleotide, and wherein the antisense oligonucleotide induces exon 53 skipping, or a pharmaceutically acceptable salt thereof; and (ii) a pharmaceutically acceptable carrier.

REMARKS

Claims 2 and 3 are pending in the application. Applicants respectfully request reconsideration and withdrawal of the rejections as discussed below. Should the Examiner agree, she is urged to call the undersigned to address any outstanding double patenting rejections to expedite prosecution of this application.

Claim Rejections - 35 USC § 103

Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being obvious over van Ommen *et al.* (WO 2004/083432) and Koenig *et al.* (Nature 338, 509 - 511 06 April 1989). Applicants respectfully traverse this rejection based on the following remarks.

The Office failed to establish a prima facie case of obviousness

The Office bears the initial burden of factually supporting any *prima facie* conclusion of obviousness. (MPEP §2142, 9th Ed.) "The Federal Circuit has stated that 'rejections on obviousness cannot be sustained with mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness." (*Id.* citing *In re Kahn*, 441 F.3d 977, 988, 78 USPQ2d 1329, 1336 (Fed. Cir. 2006); see also *KSR*, 550 U.S. at 418, 82 USPQ2d at 1396 (quoting Federal Circuit statement with approval).)

"Obviousness is a question of law with underlying factual findings, including: (1) the scope and content of the prior art; (2) the level of ordinary skill in the pertinent art; (3) the differences between the claimed invention and the prior art; and (4) objective evidence such as commercial success, long-felt need, and the failure of others." (KSR Int'l Co. V. Teleflex, Inc., 550 U.S. 398 (2007) citing Graham v. John Deere Co., 383 U.S. 1, 17-18 (1966).) With respect to the third inquiry, to establish a prima facie case of obviousness, the Office must identify both a reason why a person of ordinary skill in the art would have combined the prior art elements to arrive at the claimed subject matter, and a reason why one of ordinary skill in the art would have considered the outcome predictable. (KSR Int'l Co. V. Teleflex, Inc., 550 U.S. 398 (2007).)

"In cases involving the patentability of a new chemical compound, *prima facie* obviousness under the third *Graham* factor generally turns on the structural similarities and differences between the claimed compound and the prior art compounds." According to

established Federal Circuit precedent, a two-part "lead compound" analysis must be satisfied to establish a *prima facie* case of obviousness. (*Otsuka Pharmaceutical Co. Ltd., v. Sandoz, Inc.*, 678 F.3d 1280 (2012).) To satisfy the lead compound analysis, the Office must establish: (1) that one of ordinary skill in the art would have selected the asserted prior art compound as a lead compound for further development, and (2) that the prior art would have motivated one of ordinary skill in the art to modify the lead compound to make the claimed compound with a reasonable expectation of success. (*Id.* at 1291-1292.)

For the reasons below, neither prong of the two part inquiry has been met in the present case. The first prong is not met because the Office failed to provide a reason why one of ordinary skill in the art would have selected SEQ ID NO: 29 ("h53AON1") of van Ommen et al. as a lead compound. The second prong is not met because, even assuming that one of skill in the art would have selected h53AON1 as a lead compound, the Office failed to provide a reason or motivation to specifically *lengthen* h53AON1 by **nine** additional bases of SEQ ID NO: 195 to arrive at the limitation of claim 1 that the base sequence comprises at least 12 consecutive bases of SEQ ID NO: 195. Moreover, there was a significant level of unpredictability associated with selecting a specific antisense oligonucleotide to induce effective exon skipping of human dystrophin pre-mRNA at the time of the invention, and therefore no reasonable expectation of success.

Lead Compound Analysis

i. The Office failed to provide a reason why a person of ordinary skill in the art would have selected h53AON1 as a lead compound

A lead compound is "a compound in the prior art that would be most promising to modify in order to improve upon its...activity and obtain a compound with better activity." (Otsuka Pharmaceutical Co. Ltd., v. Sandoz, Inc., at 1291 (citing Takeda Chemical Industries, Ltd. v. Alphapharm Pty., Ltd., 492 F.3d 1350, 1357 (Fed. Cir. 2007)).) "[A] reason to select a compound as a lead compound depends on more than just structural similarity..." Bristol-Myers Squibb Co. v. Teva Pharmaceuticals USA, Inc., 923 F.Supp.2d 602 at 657 (2013) (citing Matrix Labs., 619 F.3d at 1354; emphasis added). Notably, it has been held that "absent

¹ Applicants note and further explain below that, contrary to the position of the Office, the skilled artisan must lengthen h53AON1 by nine nucleotides, not two nucleotides, of SEQ ID NO: 195 to achieve the requirement of at least 12 bases of SEQ ID NO: 195 recited by the instant claims.

a reason or motivation based on such prior art evidence, *mere structural similarity* between a prior art compound and the claimed compound *does not inform the lead compound selection*." (*Otsuka Pharmaceutical Co. Ltd., v. Sandoz, Inc.*, at 1292 (citing *Datichi Sankyo Co. v. Matrix Labs., Ltd.*, 619 F.3d 1346, 1354 (Fed. Cir. 2010)); emphasis added.)

The Office has not provided any evidence or reasoning to support the conclusion that a person of ordinary skill in the art would have selected h53AON1 as the lead compound. Instead, the Office simply chooses it as its basis for the alleged obviousness of the claimed subject matter. Thus, its' selection by the Office in the absence of any supporting evidence or reasoning as a lead compound can only be through impermissible hindsight. Accordingly, the Office has not established that a person of ordinary skill in the art would select h53AON1 as the lead compound to modify to arrive at the claimed antisense oligonucleotides. For this reason alone, the claims are not *prima facie* obvious over the cited documents, and the Office should therefore withdraw the rejection.

ii. The cited art does not motivate a person of ordinary skill in the art to modify h53AON1 to make the claimed antisense oligonucleotides with a reasonable expectation of success

Even if the Office had established that a person of ordinary skill in the art would have selected h53AON1 as the lead compound, the second prong of the test also has not been met. The second prong of the lead compound analysis requires a determination of whether "the prior art would have supplied one of ordinary skill in the art with a reason or motivation to modify a lead compound with a reasonable expectation of success." (*Otsuka Pharmaceutical Co. Ltd., v. Sandoz, Inc.*, 678 F.3d at 1292 (2012).)

The Office relies on van Ommen et al. as teaching a genus of oligonucleotides 16-50 bases in length that are complementary to, and cause skipping of, exon 53, and selects SEQ ID NO: 29 (h53AON1), which it contends is a 18-mer oligonucleotide having a sequence identical to three nucleotides of SEQ ID NO: 195. The Office contends, "[i]t would have been obvious for one of ordinary skill in the art to make an antisense oligonucleotide of 20-31 bases" using "the sequence of h53AON1 to arrive at an oligonucleotide of 20 nucleotides and having 12 nucleotides of SEQ ID No. 195. . ." by "preparing obvious variants of h53AON1 to try to optimize the activity of the oligonucleotide. . ." using "common and efficient strategies" such as

synthesizing and testing "longer oligonucleotides containing within them" h53AON1. (See Office Action at pages 4-5 (emphasis added).)

Applicants submit that a person of ordinary skill in the art would not have been motivated to modify h53AON1 of van Ommen et al. to arrive at the claimed morpholino antisense oligonucleotides, and certainly not with a reasonable expectation of success. Notably, none of the cited documents would have motivated one of ordinary skill in the art to *increase the length* of the 18-mer h53AON1 to 27 bases 100% complementary to the exon 53 target region +23 to +69 and, let alone select at least 12 consecutive bases of SEQ ID NO: 195 and *thymine bases* in place of uracil bases, and select a *morpholino* chemistry backbone rather than a 2'-O-methyl phosphorothioate ("2'-O-Me-PS").²

Importantly, Applicants respectfully point out that the Office's proposed strategy for modification of h53AON1 by lengthening it by only two bases would not result in an antisense oligonucleotide within the scope of the instant claims. To illustrate this point, Applicants provide the following alignment of h53AON1 (line 2) to SEQ ID NO: 195 (line 1).

1. <u>CUG</u>AAGGUGUUCUUGUACUUCAUCC SEQ ID NO: 195

h53AON1

- 2. CUGUUGCCUCCGGUU<u>CUG</u>
- 3. CUGUUGCCUCCGGUU<u>CUGAA</u> h53AON1+**2** bases = 20mer
- 4. CUGUUGCCUCCGGUUCUGAAGGUGUUC h53AON1+9 bases = 27mer

As can be seen from above and acknowledged by the Office, h53AON1 comprises only three consecutive bases of SEQ ID NO: 195 indicated in the underlined portion of lines 1 and 2. Addition of **two** additional consecutive bases to h53AON1 as proposed by the Office results in a 20mer that is within the claimed length range, but such a 20mer would only comprise **five** consecutive bases of SEQ ID NO: 195 as illustrated in line 3 – not at least 12 consecutive bases of SEQ ID NO: 195 as required by the claims. Applicants note that to achieve an antisense oligonucleotide of the instant claims comprising, *inter alia*, at least 12 bases of SEQ ID NO: 195, the skilled artisan would need to, *inter alia*, lengthen h53AON1 by 9 bases as illustrated in the underlined portion of line 4 above. Meaning, simply lengthening h53AON1 by two bases as suggested by the Office would clearly **not** result in the claim requirement of at least 12 bases of

² Nor can it be found that the claimed invention would have been "obvious to try" as there are *not* a "*finite number of identified, predictable solutions*" such that one ordinarily skilled in the art could have pursued known potential solutions with a reasonable expectation of success. (*Examination Guidelines Update: Developments in the Obviousness Inquiry after KSR v. Teleflex*, issued by the United States Patent and Trademark Office (Federal Register, Vol. 75, No. 169: 53643, September 1, 2010); emphasis added.)

SEQ ID NO: 195. Applicants base the remainder of the response based on modifying h53AON1 by, *inter alia*, adding 9 consecutive bases of SEQ ID NO: 195.

With regard to van Ommen et al., it cannot be said that there were a "finite number" of known, predictable solutions to the problem of designing a more efficient exon skipping antisense oligonucleotide with a reasonable expectation of success. In fact, van Ommen et al. suggest a wide variety of modifications to the antisense oligonucleotide structure with little specificity as to any individual oligonucleotide in the following:

[t]he complementary oligonucleotide generated through a method of the invention is preferably complementary to a consecutive part of between 16 and 50 nucleotides of the exon RNA. Different types of nucleic acid may be used to generate the oligonucleotide. Preferably, the oligonucleotide comprises RNA, as RNA/RNA hybrids are very stable. Since one of the aims of the exon skipping technique is to direct splicing in subjects, it is preferred that the oligonucleotide RNA comprises a modification providing the RNA with an additional property, for instance, resistance to endonucleases and RNaseH, additional hybridization strength, increased stability (for instance, in a bodily fluid), increased or decreased flexibility, reduced toxicity, increased intracellular transport, and/or tissue-specificity, etc. Preferably, the modification comprises a 2'-O-methyl-phosphorothioate oligoribonucleotide modification.

With the advent of *nucleic acid-mimicking technology*, it has become possible to generate molecules that have a similar, preferably the same, hybridization characteristics, in kind, not necessarily in amount, as nucleic acid itself. Such equivalents are, of course, also part of the invention. *Examples of such mimics* equivalents are *peptide nucleic acid*, *locked nucleic acid and/or a morpholino phosphorodiamidate*. . . *Hybrids between one or more of the equivalents among each other and/or together* with nucleic acid are, of course, also part of the invention. In a preferred embodiment, an equivalent comprises locked nucleic acid, as locked nucleic acid displays a higher target affinity and reduced toxicity and, therefore, shows a higher efficiency of exon skipping. (van Ommen et al. page 9, line 28 to page 11, line 2; emphasis added.)

van Ommen et al. also teach that "[i]t is thus not absolutely required that all the bases in the region of complementarity are capable of pairing with bases in the opposing strand....[m]ismatches may to some extent be allowed." (van Ommen et al. at page 3, 11. 3-8; emphasis added.) van Ommen et al. does not require that additional bases added to the antisense oligonucleotide be complementary to exon 53. Id.

Thus, there are a tremendous number of possible solutions to modify h53AON1 based on the length and position of "16-50 bases," mismatches, and many possible variations at any of three "substituents" (*i.e.*, nucleobase, ribose ring and phosphate linkage). Even if one focuses on

the nucleobase sequence, assumes the chemical backbone and internucleotide linkages are unmodified, and limits the number of possible bases to those found in RNA, as shown in h53AON1, adding a single nucleobase to a 18-mer yields 8 possible sequence combinations (A, C, G, or U added before or after the 18-mer.)³ Adding two nucleobases yields 64 possible combinations. Adding three nucleobases yields 256 combinations. Adding 9 nucleobases to obtain a 27-mer yields 2,621,440 possible combinations. And, adding 32 nucleobases to obtain a 50-mer yields 608,742,554,432,415,200,000 possible combinations.

Of course, this significantly *underestimates* the number of possible nucleobase combinations because van Ommen et al. specify "different types of nucleic acid," and is not limited to the "natural" bases A, C, G, and U found in RNA, but includes other naturally-occurring and non-naturally occurring nucleobases such as inosine, hypoxanthine, xanthine, and many others. Different types of nucleic acid also include nucleotide analogs and chemical modifications to the backbone, as all of the working examples by van Ommen et al. use 2'-O-Me-PS oligoribonucleotide modifications. Different types of nucleic acid also include "mimetics" such as peptide nucleic acids, locked nucleic acid, and morpholino phosphorodiamidates. (van Ommen et al. at page 10, ll. 11-16.) Given the incredibly large number of modifications to h53AON1 that are taught by the cited documents the only way to start from h53AON1 and modify it to arrive at the claimed antisense oligonucleotide is by the application of hindsight.

There is also no reason or motivation to specifically *increase* the length of h53AON1 as there is no teaching in van Ommen et al. with respect to the effects on exon skipping of *lengthening* (or shortening) an antisense oligonucleotide. In fact, as shown in Table 2, all of the antisense oligonucleotides with exon skipping activity are *15-24 bases in length*, and all but 3 of those are between *17 and 20 bases*, almost two thirds are either *19 or 20 bases*, and *none are 25 bases in length*. (van Ommen et al. Table 2 at page 48.) As the vast majority of the antisense oligonucleotides tested by van Ommen et al. in Table 2 are *20 bases or less* (25/30), one of ordinary skill in the art would have no reason or motivation to lengthen h53AON1 at all. In fact, one skilled in the art would be equally motivated to shorten h53AON1, as almost two thirds of

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³ Assuming only the four RNA nucleobases, the number of nucleobase combinations for a particular length AON can be calculated by this formula, where "n" equals the number of bases being added to the chain: (4ⁿ) x (n+1). This is because each additional nucleotide can be added to either end of SEQ ID NO: 29.

the antisense oligonucleotides are either 19 or 20 bases, and the shortest antisense oligonucleotide with activity in Table 2 is 15 bases (h46AON4b).

Moreover, the Office failed to provide a reason why the skilled artisan would lengthen h53AON1. Instead, the Office merely concludes the skilled artisan would "prepare obvious variants of h53AON1 to try to optimize the activity of the oligonucleotide" and that the skilled artisan would "try" to enhance activity by "a common and efficient strategy" of synthesizing and testing "longer oligonucleotides containing within them the sequence known to have the desired activity." Office Action at pages 4-5. The Office overlooks the fact that in Table 2 the only other antisense oligonucleotide made and tested by van Ommen et al. is h53AON2, and this antisense oligonucleotide – like h53AON1 – is an 18mer. Applicants respectfully point out that "[a] particular parameter must first be *recognized* as a *result-effective variable*, i.e., a variable which achieves a *recognized* result, before the determination of the optimum or workable ranges of said variable might be characterized as routine experimentation." M.P.E.P. 2144.05(II)(B) (emphasis added); *see* also *In re Antonie*, 559 F.2d 618, 195 U.S.P.Q. 6 (CCPA 1977).

In the present case, the Office failed to satisfy its burden of providing evidence that oligonucleotide length was recognized in the prior art as a result effective variable for exon 53 skipping and activity in treatment for DMD. See *id*. Absent such evidence of recognition as a "result-effective variable[,]" it is not, therefore, routine optimization "within the skill of the artisan" to vary the length of an oligonucleotide to optimize exon 53 skipping and activity in the treatment of DMD. See M.P.E.P. 2144.05(II)(B); *In re Antonie*, 559 F.2d 618, 620, 195 U.S.P.Q. 6, 8-9 (C.C.P.A. 1977) (optimization of a parameter not recognized as a result-effective variable is an exception to the rule that "discovery of an optimum value of a variable in a known process is normally obvious"). Thus, the Office's proffered rationale of routine optimization by lengthening h53AON1 does not apply.

Given the length of 16-50 bases and the many possible variations in nucleobase and backbone chemistry taught by van Ommen et al., there is *not* a "finite number" of known, predictable solutions to modifying h53AON1 such that one of ordinary skill in the art would arrive at the claimed morpholino antisense oligonucleotides of 20 to 31 bases having a base sequence 100% complementary to consecutive bases of a target region of exon 53 of the human dystrophin pre-mRNA, wherein the target region is within annealing site H53A(+23+47) and annealing site H53A(+39+69), and having at least 12 consecutive bases of SEQ ID NO: 195 in which uracil bases are thymine bases, with a reasonable expectation of success. In fact, there is

absolutely nothing in van Ommen et al. about selecting a morpholino chemistry backbone and thymine bases, rather than uracil bases.

iii. <u>High level of unpredictability in the field with no reasonable expectation of</u> success

Even assuming, *arguendo*, that one of ordinary skill would have selected h53AON1 of van Ommen et al. as a lead compound and would have been motivated to modify it in the particular way necessary to arrive at the subject matter of the claims, there would be no reasonable expectation of success because at the time the instant invention was made, there was a significant level of unpredictability associated with selecting specific antisense oligonucleotide sequences to induce effective dystrophin exon skipping. For example, the specification as originally filed notes that the size or length of an antisense oligonucleotide is not predictive of its efficacy (specification at page 21, lines 11-12). In addition, Applicants have found that there is no standard motif that can be blocked or masked by antisense molecules to redirect splicing (specification at page 21, lines 18-20). Applicants submit that the cited art does not provide sufficient guidance to arrive at the claimed subject matter considering the high level of unpredictability in the art.

Applicants refer the Office to van Deutekom *et al.* (2003) Nature Reviews, 4:774-783 ("van Deutekom Review"; submitted in an Information Disclosure Statement on September 22, 2017). This article is a review that generally discloses exon skipping in the dystrophin gene. The van Deutekom Review notes that interfering with exon selection for inclusion before splicing is "a process that is *not yet well understood*" (page 780, col. 1, lines 1-3, emphasis added).

Applicants also refer the Office to U.S. Patent Application Publication No. 2006/0147952 to van Ommen et al. (the '952 Publication) describe an approach in which "AONs were *empirically analyzed* for the induction of exon skipping." ('952 Publication at [0051]; emphasis added.) Such an approach relies on experience or observation and provides no indication as to what parameters are critical for the design of exon skipping antisense. As each antisense oligonucleotide must be empirically analyzed, the results are *unpredictable* as reported in Table 2 of the '952 Publication:

[t]heir different lengths and G/C contents (%) did not correlate to their effectivity in exon skipping (1, induced skipping, 2, no skipping). The AONs were directed to purine

(A/G)-rich sequences as indicated by their (antisense) U/C content (%). Skipping of the target exons resulted in either an in-frame (IF) or out-of-frame (OF) transcript. (van Ommen et al. [0153], Table 2, footnote a; emphasis added.)

Additional evidence of unpredictability is found by analyzing the antisense sequences in Table 2 of the '952 Publication. For example, the two antisense oligonucleotides designed to induce skipping of exon 2 have overlapping nucleotide sequences:

h2AON1 cccauuuugugaauguuuucuuuu

h2AON2 uugugcauuuacccauuuugug

Despite the overlap in sequence, h2AON1 purportedly induced skipping, while h2AON2 did *not*. ('952 Publication at Table 2.) And yet for another pair of overlapping AONs, both members of the pair did purportedly induce skipping:

h29AON1 uauccucugaaugucgcauc

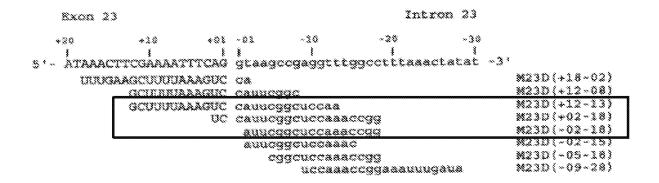
h29AON2 gguuauccucugaaugucgc

There is no explanation in the '952 Publication for these disparate results.

Much of the data in Table 2 of the '952 Publication was published in 2002 by Aartsma-Rus et al. (Neuromuscular Disorders, 12:S71-S77 (2002) ("Aartsma-Rus (2002)"; submitted in an Information Disclosure Statement on September 22, 2017). Aartsma-Rus (2002) discloses two specific oligonucleotides directed at dystrophin exon 53 and notes that there is *no correlation* between the length or sequence of the oligonucleotide and its effectiveness at inducing exon skipping. (Aartsma-Rus (2002) at page S76, col. 1, lines 43-45.) Still further, Aartsma-Rus (2002) teaches that *significant experimentation is required* to arrive at specific oligonucleotides, noting that "[w]e therefore have *no insight* into the actual position of the targeted sequence within the completely folded RNA structure. Its accessibility, and thus the effectivity of any designed AON, will therefore have to be tested *empirically* in the cells, as was done in this study." (Aartsma-Rus (2002) at page S76, col. 1, lines 4-6; emphasis added.)

Another study, co-authored by one of the Applicants, examined skipping of exon 23 from the mouse DMD gene by RT-PCR following transfection with a series of overlapping 2'-Me-O-PS AONs, as shown in the following figure. Of the antisense oligonucleotides tested, only M23D(+12-13), M23D(+02-18), and M23D(-02-18) were effective in inducing detectable exon

skipping. (Mann et al., J. Gene Med., 4(6): 644-654 (2002); submitted in an Information Disclosure Statement on September 22, 2017.)



(Mann et al. at 646.) Notably, the *shorter* antisense oligonucleotide M23D(-02-18), which is only *17 nucleotides* in length, was particularly efficient at inducing skipping and was reported to induce exon skipping at concentrations as low as 5 nM. The authors concluded that they could improve "the efficiency of the technique" by "*reduc[ing] the size* and the effective dose of the AO[N]s" examined. (Mann et al. at 644; emphasis added.)

Similar examples of unpredictability were reported by van Ommen et al. and other investigators at or near the date of Applicants' invention. In a 2005 publication the same design rationale described by van Ommen and coworkers was applied again. (Aartsma-Rus et al. Oligonucleotides, 15(4): 284-297 (2005) ("Aartsma-Rus (2005)"; submitted in an Information Disclosure Statement on September 22, 2017.) Table 1 of Aartsma-Rus (2005) provides the sequences of the antisense oligonucleotides and whether or not they induced skipping. (Aartsma-Rus (2005) at 285, first and second columns.) The following pairs of antisense oligonucleotides are found in the Table (+ and – refer to skipping ability):

h29AON10	guaguucccuccaacg	-
h29AON11	cauguaguucccucc	+
h43AON2	uuquuaacuuuuucccauu4	+

⁴ There is a discrepancy between the disclosure of Aartsma-Rus (2005) and the sequence as shown by van Ommen et al. In the 2005 publication, the sequence is shown as uuguuaacuuuuuccauu, while in Table 2

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h43AON3	uguuaacuuuuucccauugg	_
h46AON8	gcuuuucuuuuaguugcugc	++
h46AON9	uuaguugcugcucuu	
h48AON3	ggucuuuuauuugagcuuc	****
h48AON7	uuuauuugagcuucaaauuu	+

It is evident from these results that applying the design rationale described by van Ommen et al. is a hit-or-miss proposition in terms of whether any given antisense oligonucleotide will be capable of inducing skipping, even in situations where the antisense oligonucleotides are very similar to each other in terms of nucleotide sequence, and other variables concerning the chemical backbone are fixed. All of the antisense oligonucleotides described in the study "contain 2'-O-methyl RNA and full-length phosphorothioate (PS) backbones." (Aartsma-Rus (2005) at 285.) None of the antisense oligonucleotides disclosed were longer than 24 nucleotides, and the majority of the antisense oligonucleotides were 20 nucleotides in length or shorter. (Aartsma-Rus at Table 1.) None of these antisense oligonucleotides include non-natural bases. Given the common chemical modifications of these antisense oligonucleotides, the data reported in this paper demonstrates the unpredictable impact that length and nucleotide composition make with respect to efficiency in inducing exon skipping.

The recognition of the lack of predictability in the field of exon skipping continued beyond 2005. A 2007 paper co-authored by van Ommen co-inventors Aartsma-Rus and van Deutekom states that "several years after the first attempts at dystrophin exon skipping with AOs [antisense oligonucleotides], there are still no clear rules to guide investigators in their design, and in mouse and human muscle cells in vitro there is great variability for different targets and exons." (Arechavala-Gomeza et al. Hum. Gene Ther., 18(9): 798-810, 807 (2007); submitted in an Information Disclosure Statement on September 22, 2017; emphasis added.)

And again in 2009 van Ommen and co-workers wrote that while existing software programs can facilitate design, "in general *a trial and error procedure* is still involved to

of van Ommen et al. it shown as above having a sequence of "ccc" toward the 3' end of the AON. It is assumed the latter is correct as it corresponds to the sequence of h43AON3.

identify potent AONs." (Aartsma-Rus et al., Mol. Ther., 17(3):548-553 (2009) at 548; submitted in an Information Disclosure Statement on September 22, 2017; emphasis added.)

Evidence that selecting specific antisense oligonucleotide sequences to induce effective dystrophin exon skipping remains an unpredictable exercise is also found in a 2011 publication by Wu *et al.* (2011) *PLoS One*, 6(5): e19906 (submitted in an Information Disclosure Statement on September 22, 2017). Although Wu *et al.* is evidence developed after the instant filing date, the level of unpredictability in the art directly relates to whether the results obtained with any specific species would be unexpected and courts have held that it is not "improper to conduct additional experiments and provide later-obtained data in support of patent validity." *Knoll Pharm. Co., Inc. v. Teva Pharms. USA, Inc.*, 367 F.3d 1381, 1385 (Fed. Cir. 2004). Evidence of the lack of predictability of in the field is relevant to the non-obviousness of the claimed antisense oligonucleotides over the cited art.

Wu *et al.* describe a systematic approach for identifying antisense oligonucleotides of high efficacy in inducing dystrophin exon skipping. Wu *et al.* designed 25 antisense oligonucleotides (AOs) to cover more than two thirds of exon 50 of the human dystrophin gene and the two flanking intron sequences. Wu *et al.* determined the efficiency of AO-induced skipping of exon 50 by comparing the activity of a series of AOs. Table 1 on page 4 of the publication summarizes all the AOs tested, including both 2'-O-methyl phosphorothioate and morpholino antisense oligonucleotides, as well as their reported activity in two assays. The exon skipping effect was determined using both a GFP reporter cell line with GFP expression coupled to exon 50 skipping and normal human myoblasts.

As shown in Table 1, Wu et al. tested AOs having a common 5' or 3' termini, but varied in length. Shown below is an excerpt from Table 1 of Wu et al.

hESO AO2PS	-19-1	5'-CUUUAACAGAAAAGCAUAC-3'	19 bp	-	~	N/D
heso Aciaps	-19+1	5'-UCUUUAACAGAAAAGCAUAC-3'	20 bp	e rapidate		N/D
HESO ADAPS	-19+3	5'-CCUCUUUAACAGAAAAGCAUAC-3'	22 bp	4%	3%	N/D
heso Aosps	19+8	5'-AACUUCCUCUUUAACAGAAAAGCAUAC-3'	27 bp	21%	29%	N/D
hE50 AO6P5	19+13	5'-CUUCUAACUUCCUCUUUAACAGAAAAGCAUAC-3'	32 bp	3%	<1%	N/D

Each of these AOs target exon 50 starting at position (-19) and ending at position (-1), (+1), (+3), (+8) and (+13), respectively, and the oligonucleotides overlap at the 3' end. These AOs varied in length from 19 to 32 bases and the data shows that increasing AO length does not

necessarily increase exon skipping activity and there is no reasonable expectation of success in increasing AO length to obtain increased exon skipping activity. For example, the 19- and 20-mer AOs hE50 AO2PS and hE50AO3PS were inactive. Increasing the length to 22 and 27 bases (hE50 AO4PS and hE50 AO5PS, respectively) resulted in increased activity, but a further increase to 32 bases (hE50 AO6PS) decreased activity significantly. Specifically, hE50 AO5PS is 5 nucleotides longer than hE50 AO4PS, but the level of GFP of hE50 AO5PS is 17% higher with respect to GFP assay and 26% higher with respect to human myoblasts. hE50 AO5PS is 5 nucleotides shorter than hE50 AO6PS, but the level of GFP of hE50 AO5PS is 18% higher with respect to GFP and 28% higher with respect to human myoblasts.

The data provided in Table 1 also demonstrate that when hE50 AO4PS (-19+3) was extended five nucleotides in length to hE50A AO5PS (-19+8), activity was increased. Notably, however, the addition of yet another five nucleotides to hE50 AO6PS (-19+13) essentially eliminated the activity.

In yet another example, a relatively short oligonucleotide (hE50 AO19PS; +97-5) at the 3' end of the exon showed low activity (3%) with respect to GFP, and activity did not increase when the oligonucleotide was lengthened by five or nine nucleotides at the 5' end (hE50 AO20PS and hE50 AO21PS, respectively) or by five nucleotides in the 3' direction (hE50 AO16PS). These four antisense oligonucleotides showed no activity in the human myoblasts. Thus, Wu *et al.* demonstrate that increasing or decreasing AO length results in unpredictable effects on exon skipping.

Importantly, the Patent Trial and Appeal Board (PTAB) in Interference No. 106,007 ("the '007 interference") concerning exon 53 antisense oligonucleotides for DMD held that the field of antisense oligonucleotides for exon skipping for DMD was unpredictable at the time the instant application was filed. Its decision was based on the foregoing evidence and expert testimony. *See* Decision on Motions in Interference No. 106,007 (exon 53) dated May 12, 2016 (decision final upon withdrawal of CAFC Appeal No. 2016-2262; Decision on Motions previously submitted in an Information Disclosure Statement on September 22, 2017). Specifically, the PTAB determined that sequence length of antisense oligonucleotides that would maintain exon skipping was substantially unpredictable at the time US Application No. 11/233,495 was filed by Academisch Ziekenhis Leiden ("AZL"). See *id.* at page 5, line 26 to page 6, line 3. Applicants note that the '495 application claims priority to the van Ommen *et al.* PCT application presently cited by the Office. In its Decision, the PTAB

considered the foregoing evidence as representative of the state of the art with Exhibits 2010 and 2015 in Interference 106,007 corresponding to Aartsma-Rus and Wu *et al.*, submitted herewith as Appendices A and C, respectively. Unpredictability in this art was determined by the PTAB to have existed at the time of the instant invention (and years afterwards).

Upon consideration of this evidence, the PTAB stated "[t]he evidence indicates that at the time AZL filed its application, the identification of AONs that will cause exon skipping was generally thought to be **unpredictable**. One of the significant factors causing that unpredictability is the effect of the number of nucleobases present in the AON." (Decision on Motions at page 17 (emphasis added)). In particular, the relationship between length of a base sequence and the ability of an antisense oligonucleotide to induce exon skipping was considered by the PTAB.

Despite the unpredictability in the art, the PTAB found obvious a 20mer AON based on SEQ ID NO: 193 over a completely overlapping 18mer (h53AON1). In this particular circumstance, the PTAB found that "a degree of exon skipping capability would likely be maintained due to a change in a *small number of complementary nucleobases* of an AON known to cause skipping" and, therefore, concluded "[i]t would have been obvious, for example, to add the *two* complementary nucleobases dictated by the known sequence of exon 53 to either end of h53AON1 with a reasonable expectation that the resultant 20 base AON would cause exon skipping." *Id.* at pages 41-42 (emphasis added).

In contrast to the narrow issue considered by the PTAB described above, the PTAB does not support a determination of obviousness of the instant claims. The PTAB's determination of unpredictability still applies. And to arrive at the instantly claimed antisense oligonucleotides, a person of ordinary skill would have to modify h53AON1 by adding at least *9 bases* (and would have to do so with a reasonably expectation of success). Such a modification in length cannot be said to be predictable under the Decision in the '007 interference. Accordingly, it would not have been obvious to extend h53AON1 by 9 bases at least because of the highly degree of unpredictability discussed above, and the Office failed to provide evidence to the contrary.

Furthermore, similar to the Office's assertion, AZL argued that upon identification of h53AON1, "one skilled in the art would have investigated extended complementary sequences with the expectation that the longer sequences would bind and cause skipping." *Id.* The PTAB did not find this argument persuasive at least because AZL failed to provide any

evidence to support the basis for this expectation. *Id.* at page 18. Like AZL, the Office failed to provide evidence to support this argument. *See* Office Action at page 5. Accordingly, Applicants urge the Office to adopt the PTAB's determination of unpredictability in the field of exon skipping for DMD.

In summary, the van Deutekom Review, Aartsma-Rus and Wu et al. references, along with the Decision on Motions in the '007 interference, serve to illustrate the unpredictability associated with selecting *specific* antisense oligonucleotides that are effective for inducing skipping of dystrophin exons. Accordingly, the Office failed to establish a *prima facie* case of obviousness with respect to the predictability of the outcome in combining teachings of van Ommen et al. and Koenig et al. in the manner proposed to arrive at the claimed invention.

In view of the preceding remarks, Applicants submit that the Office failed to establish a *prima facie* case of obviousness based on the cited art. As such, Applicants respectfully request reconsideration and withdrawal of this obviousness rejection.

Double Patenting

Claims 2 and 3 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-36 of U.S. Patent No. 8,455,636. Applicants respectfully traverse this rejection.

The Office asserts "the instant claims and the claims of the patent are drawn to antisense oligonucleotides having at least 17 consecutive bases of SEQ ID No. 193." Office Action at page 6. However, Applicants note the instant claims are drawn to antisense oligonucleotide having 20-31 bases and comprising at least 12 consecutive bases of SEQ ID NO: 195.

Moreover, the '636 patent is directed to an antisense oligonucleotide comprising 20-50 bases and at least 20 consecutive bases of SEQ ID NO: 193. As such, Applicants point out that there is only a 2 base overlap between SEQ ID NOs: 193 of the '636 Patent and SEQ ID NO: 195 of the instant claims. Accordingly, Applicants respectfully request that the Office consider withdrawing the instant rejection in view of these facts and the foregoing remarks.

Claims 2 and 3 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-25 of U.S. Patent No. 8,232,384.

Applicants respectfully request clarification of this rejection. Specifically, The Office asserts

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"the instant claims and the claims of the patent are drawn to antisense oligonucleotides having at least 17 consecutive bases of SEQ ID No. 193." Office Action at page 7. However, Applicants note the instant claims are drawn to antisense oligonucleotide having 21-30 bases and comprising at least 12 consecutive bases of SEQ ID NO: 195. Moreover, the '384 patent is directed to an antisense oligonucleotide *consisting* of SEQ ID NO: 195. Accordingly, Applicants respectfully request clarification.

CONCLUSION

In view of the foregoing, Applicants respectfully submit that the pending claims are in condition for allowance. If a telephone conversation with Applicants' attorney would expedite the prosecution of the above-identified application, the Examiner is urged to call the undersigned at (617) 217-4626. If a fee is due with this submission, please charge our Deposit Account No. 12-0080 under Order No. AVN-008CN41, from which the undersigned is authorized to draw

Dated: January 5, 2018 Respectfully submitted,

Electronic signature: /Amy E. Mandragouras,

Esq./

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EFS ID:	31418918				
Application Number:	15705172				
International Application Number:					
Confirmation Number:	2879				
Title of Invention:	ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF				
First Named Inventor/Applicant Name:	Stephen Donald WILTON				
Customer Number:	123147				
Filer:	Amy E. Mandragouras				
Filer Authorized By:					
Attorney Docket Number:	AVN-008CN41				
Receipt Date:	05-JAN-2018				
Filing Date:	14-SEP-2017				
Time Stamp:	16:01:20				
Application Type:	Utility under 35 USC 111(a)				

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	2018_01_05_Response_to_Offi ce_Action_AVN-008CN41.pdf	i i	no	19
Warnings:			53.0		

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc code: IDS

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	Filing Date		2017-09-14	
	First Named Inventor	Stephen Donald WILTON		
	Art Unit		1674	
	Examiner Name	K. Chong		
	Attorney Docket Numb	cket Number AVN-008CN41		

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1	9758783		2017-09-12	Wilton et al.			
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	1	20110046203	A1	2011-02-24	Wilton et al.			
	2	20170283799	A1	2017-10-05	KAYE			
	3	20170292125	A1	2017-10-12	SAZANI et al.			
	4	20170369875	A1	2017-12-28	BESTWICK et al.			
	5	20170369876	A1	2017-12-28	BESTWICK et al.			

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	1	European Decision of the Opposition Division, European Application No. 10004274.6, dated December 19, 2017, 23 pages.										
	2	Exte	nded European Sea	arch Repo	ort, EP 16	6172354	.9, dated Ja	nuary	23, 2017, 7 pages.			
	3	Exte	nded European Sea	arch Repo	ort, EP 17	159328	.8, dated Se	epteml	ber 5, 2017, 10 pages.			
	4		ersity of Western Al nt Interference No.						IWA Notice of Filing Priori 5)	ty Statement	, 2 pages,	
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Case 1:21-cv-01015-JLH Doc	Application Number 9	u 12/	18/23 Page 290 of 361 PageID 15/05172	
INFORMATION BIOOLOGUEE	Filing Date		2017-09-14	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	First Named Inventor Steph		phen Donald WILTON	
	Art Unit		1674	
(Not let submission under et et it i.e.,	Examiner Name	K. Chong		
	Attorney Docket Number	er	AVN-008CN41	

¹ See Kind Codes of USPTO Patent Documents at <u>www.USPTO.GOV</u> or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

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Case 1:21-cv-01015-JLH Doo	Application Number 9	u 12/	18/23 Page 291 of 361 PageID 15/05172
INFORMATION DIOOLOGUEE	Filing Date		2017-09-14
INFORMATION DISCLOSURE	First Named Inventor	Stephen Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674
(Not lot Submission ander or or it 1.00)	Examiner Name	K. Che	ong
	Attorney Docket Numb	er	AVN-008CN41

CERTIFICAT	TION ST	ATEMENT	Γ
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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

That no item of information contained in the information disclosure statement was cited in a communication from a
foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification
after making reasonable inquiry, no item of information contained in the information disclosure statement was known to
any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure
statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

- X The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- X A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Amy E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2018-01-05
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

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- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 CFR § 1.6(a)(4).

Dated: January 5, 2018

Electronic Signature for Amy E. Mandragouras, Esq.: /Amy E. Mandragouras, Esq./

Docket No.: AVN-008CN41 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Stephen Donald Wilton *et al.*

Application No.: 15/705,172 Confirmation No.: 2879

Filed: September 14, 2017 Art Unit: 1674

For: ANTISENSE OLIGONUCLEOTIDES FOR

INDUCING EXON SKIPPING AND METHODS OF USE THEREOF

Examiner: K. Chong

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (SIDS)

Dear Sir:

In compliance with 37 C.F.R. § 1.56, 1.97 and 1.98, the attention of the U.S. Patent and Trademark Office is hereby directed to the documents listed on the attached PTO/SB/08. In accordance with 37 C.F.R. § 1.98(a)(2)(i)-(iv), Applicant submits herewith copies of the non-patent literature references, but has not included copies of U.S. patents and/or U.S. patent applications.

It is respectfully requested that the documents listed on the PTO/SB/08 be expressly considered by the Examiner during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Application No.: 15/705,172 (Information Disclosure Statement) Docket No.: AVN-008CN41

Applicant calls to the attention of the Examiner the following Applications and provides copies of Office Actions cited therein, as well as, copies of Office Actions from Applications previously made of record:

		Application	ons	
Examiner's	Serial No.	Filing Date	First Named	Docket No.
Initials			Inventor	
	15/349,778	11-11-2016	Peter SAZANI	AVN-009DVCN6
	15/420,823	01-31-2017	R.K. BESTWICK	AVN-010PCCN2
	15/359,152	11-22-2016	E.M. KAYE	AVN-012ACN
	15/422,127	February 1, 2017	R.K. BESTWICK	AVN-013BCN
	15/417,401	01-27-2017	R.K. BESTWICK	AVN-017CN

	Office Actions (copies enclosed)						
Examiner's Initials	Serial No.	Date Mailed from USPTO	Examiner				
	15/422,127	November 27, 2017	D.H. Shin				
	15/417,401	October 12, 2017	D.H. Shin				
	15/359,152	January 5, 2018	E. Poliakova-Georgan				
	15/420,823	November 2, 2017	A. Hudson Bowman				
	14/776,533	November 16, 2017	D. Shin				

The Examiner is requested to review the file histories of these applications, including cited references, Office Actions, Responses, etc., and is asked to contact Applicant's Attorney if the Examiner would like the Applicant to supply copies of any or all of the information included in any of these applications. For any of these applications, if Applicant's Attorney is not contacted by the Examiner with such a request, then it will be concluded that the Examiner has reviewed or will review the file content of these applications.

Applicant respectfully requests that the Examiner initial the blank columns next to the cited Applications and Office Actions, to indicate that the information has been considered by the Examiner. Alternatively, Applicant requests that the Examiner insert the phrase, "All references considered except where lined through," on each page of the Information Disclosure Statement, along with the Examiner's initials.

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 295 of 361 PageID

Application No.: 15/705,172 (Information Disclosure Statement) Docket No.: AVN-008CN41

The filing of this Information Disclosure Statement is not to be interpreted as a representation that the cited documents are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any documents herein be construed *per se* as a representation that such document is prior art. Moreover, Applicant understands the Examiner will make an independent evaluation of the cited documents.

This Information Disclosure Statement is filed after the mailing date of a first Office Action on the merits, but before the mailing date of any of a Final Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311 or an action that otherwise closes prosecution in this application (37 C.F.R. § 1.97(c)).

Please charge our Deposit Account No. 12-0080 in the amount of \$90.00 covering the fee set forth in 37 C.F.R. § 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith to our Deposit Account No. 12-0080, under Order No. AVN-008CN41.

Dated: January 5, 2018 Respectfully submitted,

Electronic signature: /Amy E. Mandragouras, Esq./ Amy E. Mandragouras, Esq. Registration No.: 36,207 NELSON MULLINS RILEY & SCARBOROUGH LLP One Post Office Square Boston, Massachusetts 02109-2127 (617) 217-4626 (617) 217-4699 (Fax) Attorney/Agent For Applicant

Electronic Patent Application Fee Transmittal					
Application Number:	15	705172			
Filing Date:	14	-Sep-2017			
Title of Invention:		ITISENSE OLIGONUC THODS OF USE THE		INDUCING EXON S	SKIPPING AND
First Named Inventor/Applicant Name:	Ste	phen Donald WILT	ON		
Filer:	iler: Amy E. Mandragouras				
Attorney Docket Number:	AV	N-008CN41			
Filed as Small Entity					
Filing Fees for Utility under 35 USC 111(a)					
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:					
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Post-Allowance-and-Post-Issuance:					
Extension-of-Time:					

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EFS ID:	31418840
Application Number:	15705172
International Application Number:	
Confirmation Number:	2879
Title of Invention:	ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF
First Named Inventor/Applicant Name:	Stephen Donald WILTON
Customer Number:	123147
Filer:	Amy E. Mandragouras/Anita Costa
Filer Authorized By:	Amy E. Mandragouras
Attorney Docket Number:	AVN-008CN41
Receipt Date:	05-JAN-2018
Filing Date:	14-SEP-2017
Time Stamp:	16:34:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$90
RAM confirmation Number	010818INTEFSW00003620120080
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.
			1601222		
1	Non Patent Literature	EPO_Comm_Decsion_from_O D_dated_19_Dec_2017.PDF	c83643dd51298fe3a40cb40bda5ae36c436 24a3b	no	23
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			318700		
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 Warnings:					
Information:					
			31278		
4	Non Patent Literature	106007_DOC215.pdf	a85666f914d6bdc9f402afc21b8dbee1fce1 5822	no	2
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			746034		
5	Other Reference-Patent/App/Search documents	14776533_02.pdf	0f37cd3fbf4e8bacf801363122b0e4cb4d33 be9f	no	24
 Warnings:					
Information:					
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6	Other Reference-Patent/App/Search documents	15359152.pdf	f2776441936bb0162cd66ed709480c568f0 cc304	no	9
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7	Other Reference-Patent/App/Search documents	#: 33019 15417401.pdf	359713	no	13		
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8	Other Reference-Patent/App/Search documents	15420823.pdf	d54128e633ebb97e95c3be278715d05730 3c0400	no	8		
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11	Information Disclosure Statement (IDS) Form (SB08)	IDSTRANS.pdf	6db9b3bfe64371a046336d29cee56972467 98181	no	3		
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Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 301 of 361 PageID #: 33020

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Case 1:21-cv-01015-JLH Doc Code: PA.. Document 435-1 Filed 12/18/23 Page 302 of 361 PageID

Document Description: Power of Attorney

#: 33021

PTO/AIA/82A (07-13)

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Application Numbe	r	15/705,172				
Filing Date		September 14, 2017	***************************************			
First Named Invent	tor	Stephen Donald WILTON				
Title		ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF				
Art Unit		1674				
Examiner Name		CHONG, Kimberly				
Attorney Docket N	umber	4140.01500A9				
SIGNATU	RE of A	plicant or Patent Practitioner				
Signature	May	2 Nove Hillente	Date (Optional)	March 28, 2018		
Name Marsha I		ose Gillentine	Registration Number	58,403		
Title (if Applicant is a juristic entity)						
Applicant Name (if Applicant is a j						
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certification more than one applicant, use multiple forms.						
*Total of	*Total of forms are submitted.					

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Doc Code: PA.,

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POWER OF ATTORNEY BY APPLICANT

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		Appli	cation Number		Filing Date	
		5/70	5,172	Į,	September 14, 2017	
			boxes above may be left blank if infor	rmation is	is provided on form PTO/AIA/82A.)	
\square	I hereby appoint transact all the attached to OR I hereby appoint business in	int the busin ransm int Pra	Patent Practitioner(s) associated with ess in the United States Patent and Tra littal letter (form PTO/AIA/82A) or ident actitioner(s) named in the attached list United States Patent and Trademark Of	the follow rademark tified about (form PT)	owing Customer Number as my/our attorney(s) or agen k Office connected therewith for the application referen	ced in
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			rm must be signed by the applicant in action and the control of th	cordance	e with 37 CFR 1.33. See 37 CFR 1.4 for signature require	nents.
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Case 1:21-cv-01015-JLH Document Electronic Ac	435-1 Filed 12/18/23 Page 304 of 361 PageID knowledgement Receipt
EFS ID:	32177928
Application Number:	15705172
International Application Number:	
Confirmation Number:	2879
Title of Invention:	ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF
First Named Inventor/Applicant Name:	Stephen Donald WILTON
Customer Number:	123147
Filer:	Marsha Rose Gillentine
Filer Authorized By:	
Attorney Docket Number:	AVN-008CN41
Receipt Date:	28-MAR-2018
Filing Date:	14-SEP-2017
Time Stamp:	16:23:18
Application Type:	Utility under 35 USC 111(a)
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Payment information:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	4140_01500A9_Filing_POA.pdf	332996	no	2
'	rowel of Attorney		e448cc9f9b39512a8ca09f37e7466c5ba4d6 bf8c	110	2
Warnings:			<u> </u>		

Case 1:21-cv-01015-JLH Information:	Document 435-1 Filed 12/18/3 #: 33024	23 Page 305 of 361 PageID
	Total Files Size (in bytes):	332996

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



153767

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS PO. Box 1450 Alexandria, Vignia 22313-1450 www.uspto.gov

APPLICATION NUMBER

FILING OR 371(C) DATE

FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE

15/705,172

1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005

09/14/2017

Stephen Donald WILTON

4140.01500A9 **CONFIRMATION NO. 2879**

POA ACCEPTANCE LETTER

Date Mailed: 04/02/2018

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/28/2018.

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

> Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/nbekele/		



123147

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS PC. Box 1450 Alexandra, Vignia 22313-1450 www.uspto.gov

APPLICATION NUMBER

FILING OR 371(C) DATE

FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE

15/705,172

One Post Office Square Boston, MA 02109

09/14/2017

Stephen Donald WILTON

AVN-008CN41

CONFIRMATION NO. 2879 POWER OF ATTORNEY NOTICE

Date Mailed: 04/02/2018

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/28/2018.

Nelson Mullins Riley & Scarborough LLP/Sarepta

• The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

> Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/nbekele/		

PTO/AIA/26 (04-14)

Approved for use through 07/31/2016, OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING Docket Number (Optional) REJECTION OVER A "PRIOR" PATENT 4140.01500A9 In re Application of: The University of Western Australia Application No.: 15/705,172 Filed: September 14, 2017 ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF For: USE THEREOF The University of Western Australia owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent No. 8,232,384 B2 as the term of said prior patent is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns. In making the above disclaimer, the applicant does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later: expires for failure to pay a maintenance fee; is held unenforceable; is found invalid by a court of competent jurisdiction; is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; has all claims canceled by a reexamination certificate; is reissued; or is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer. Check either box 1 or 2 below, if appropriate. The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee. I hereby acknowledge that any willful false statements made are punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. The undersigned is an attorney or agent of record. Reg. No. 58,403 Signature Marsha Rose Gillentine Typed or printed name Director (202) 371-2600 Telephone Number Terminal disclaimer fee under 37 CFR 1.20(d) included. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.321. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this bu rden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 309 of 361 PageID Application/Control No. Applicant(s)/Patent Under Reexamination Search Notes 15/705,172 WILTON et al. Examiner **Art Unit** 1674 KIMBERLY CHONG CPC - Searched* Date Symbol Examiner C07H 21/04 9/29/2017 KC CPC Combination Sets - Searched* Examiner Symbol Date US Classification - Searched* Class Subclass Date Examiner * See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search. **Search Notes Search Notes** Date **Examiner SEQ ID No. 195** 9/29/2017 KC PALM inventor name search 9/29/2017 KC 03/21/2018 KC updated Interference Search **US Class/CPC US Subclass/CPC Group** Date Examiner **Symbol**

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 310 of 361 PageID UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
 15/705,172	09/14/2017	Stephen Donald WILTON	4140.01500A9	2879
	7590 04/04/201 SLER, GOLDSTEIN &	_	EXAM	INER
1100 NEW YO	RK AVENUE, N.W. N, DISTRICT OF COL	CHONG, KIMBERLY		
	ΓES OF AMERICA		ART UNIT	PAPER NUMBER
			1674	
			MAIL DATE	DELIVERY MODE
			04/04/2018	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Case 1:21	L-cv-01015-JLH Document 4		Page 311 of	361 PageID	
		# Apglication No. 15/705,172	Applicant(s WILTON et a	• •	
Offic	ce Action Summary	Examiner KIMBERLY CHONG	Art Unit 1674	AIA Status No	
The MA	AILING DATE of this communication ap	pears on the cover sheet with t	the corresponden	oce address	
Period for Reply					
DATE OF THIS CO - Extensions of tim- after SIX (6) MOD - If NO period for re - Failure to reply w Any reply receive	ED STATUTORY PERIOD FOR REPI OMMUNICATION. The may be available under the provisions of 37 CFR 1 MTHS from the mailing date of this communication. The provided above, the maximum statutory period within the set or extended period for reply will, by statuded by the Office later than three months after the mailing adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply d will apply and will expire SIX (6) MONTHS te, cause the application to become ABANI	be timely filed S from the mailing date DONED (35 U.S.C. § 13	of this communication. 33).	
Status					
1) Respons	sive to communication(s) filed on 01/0	<u>)5/2018</u> .			
☐ A decla	aration(s)/affidavit(s) under 37 CFR 1	.130(b) was/were filed on			
2a)✓ This acti	•	This action is non-final.			
	ion was made by the applicant in response restriction requirement and election			ng the interview on	
	is application is in condition for allowan accordance with the practice under				
5a) Of the 6)	n(s) 2-3 is/are pending in the applicate above claim(s) is/are withdran(s) is/are withdran(s) is/are allowed. n(s) 2-3 is/are rejected. n(s) 2-3 is/are rejected. n(s) is/are objected to. n(s) are subject to restriction are been determined allowable, you may be equal property office for the corresponding and or subject to restriction are s	awn from consideration. Ind/or election requirement eligible to benefit from the Patent application. For more information, d an inquiry to PPHfeedback@usher. Index of the control of th	please see spto.gov. by the Examiner. See 37 CFR 1.85(a)).	
Certified cop a) All 1. 2. 3.	edgment is made of a claim for foreigies:	the: nents have been received. nents have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	application No		
Attachment(s)					
1) Notice of Referen	nces Cited (PTO-892)	3) 🗹 Interview Sum			
	losure Statement(s) (PTO/SB/08a and/or PTO/ il Date 01/05/2018.	/SB/08b) Paper No(s)/N 4) Other:	Mail Date <u>03/26/2018</u> -	,	

U.S. Patent and Trademark Office

#: 33031

Application/Control Number: 15/705,172

Art Unit: 1674

Page 2

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Status of Application/Amendment/Claims

Claims 2 and 3 are pending and currently under examination.

Information Disclosure Statement

The submission of the Information Disclosure Statements on 01/05/2018 is in compliance with 37 CFR 1.97. The information disclosure statement has been considered by the examiner and signed copies have been placed in the file.

Response to Arguments

Claim Rejections - 35 USC § 103

The rejection of claims 2 and 3 under pre-AIA 35 U.S.C. 103(a) as being obvious over van Ommen (WO2004/083432 cited on IDS filed 09/22/2017) and Koenig et al. (Nature 338, 509 - 511 06 April 1989 cited on IDS filed 09/22/2017) is withdrawn in response to Applicant's argument that one of skill in the art would not have been motivated to make the claimed oligonucleotide from h53AON1 taught by van Ommen.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11

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Art Unit: 1674

F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(I)(1) - 706.02(I)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/forms/. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to

http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-Lisp.

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Page 4

The rejection of claims 2 and 3 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-36 of U.S. Patent No. 8,455,636 is withdrawn in response to Applicant's arguments.

The rejection of claims 2 and 3 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-25 of U.S. Patent No. 8,232,384 is maintained for the reasons of record.

Patent '384 are drawn to an antisense oligonucleotide targeted to annealing site H53A (+23+47) and consisting of SEQ ID No. 195 which is 25 nucleotides in length. The instant claims are drawn to an antisense oligonucleotide targeted to annealing site H53A (+23+47) having 20-31 bases comprising at least 12 consecutive bases of SEQ ID No. 195 but could also encompass 25 nucleotides of SEQ ID No. 195. Therefore the instant claims and the claims of the patent are not patentably distinct from each other.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 15/705,172

Art Unit: 1674

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KIMBERLY CHONG **whose telephone number is** (571)272-3111. The examiner can normally be reached Monday thru Friday 9-5 pm.

If attempts to reach the examiner by telephone are unsuccessful please contact the SPE for 1674 Ram Shukla at 571-272-07350735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public. For more information about the PAIR system, see http://pair-direct.uspto.gov.

Page 5

Application/Control Number: 15/705,172 Page 6

Art Unit: 1674

For all other customer support, please call the USPTO Call Center (UCC) at 800-

786-9199.

/Kimberly Chong/ Primary Examiner Art Unit 1674

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 317 of 361 PageID #: 33036 Application No. Applicant(s) 15/705,172 WILTON et al. Examiner-Initiated Interview Summary Examiner Art Unit **AIA Status** 1674 No KIMBERLY CHONG All participants (applicant, applicant's representative, PTO personnel): (1) KIMBERLY CHONG. (2) AMY MANDRAGOURAS. Date of Interview: 27 March 2018. ✓ Telephonic ☐ Video Conference Type: ☐ Personal [copy given to: ☐ applicant ☐ applicant's representative] Exhibit shown or demonstration conducted:

Yes ☐ No. If Yes, brief description: _____. Issues Discussed 101 112 102 103 (For each of the checked box(es) above, please describe below the issue and detailed description of the discussion) Claim(s) discussed: . Identification of prior art discussed: ____. Substance of Interview (For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...) Called to tell Applicant's that the 103 rejection is withdrawn and to discuss double patenting rejection and whether Applicant's would file an eTerminal disclaimer since that is the only remaining rejection. I was informed this application has been transferred to a new law firm... Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview. Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/KIMBERLY CHONG/ Primary Examiner, Art Unit 1674

U.S. Patent and Trademark Office PTOL-413B (Rev. 8/11/2010)

Interview Summary

Doc code: IDS

#: 33037

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	Application Number		15705172	
	Filing Date		2017-09-14	
INFORMATION DISCLOSURE	First Named Inventor Stephe		hen Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(Not lot Submission under or of it 1.00)	Examiner Name	K. Cho	ong	
	Attorney Docket Number	er	AVN-008CN41	

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Releva		Lines where ges or Relevant
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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Releva Figures Appear		
	1	20110046203	A1	2011-02-24	Wilton et al.			
	2	20170283799	A1	2017-10-05	KAYE			
	3	20170292125	A1	2017-10-12	SAZANI et al.			
	4	20170369875	A1	2017-12-28	BESTWICK et al.			
	5	20170369876	A1	2017-12-28	BESTWICK et al.			

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	1	European Decision of the Opposition Division, European Application No. 10004274.6, dated December 19, 2017, 23 pages.											
	2	Extended European Search Report, EP 16172354.9, dated January 23, 2017, 7 pages.											
	3	Exten	ided European Sea	arch Repor	t, EP 17	'159328.	8, dated S	epteml	per 5, 2017, 10 pages.				
	4		ersity of Western Ai at Interference No.						WA Notice of Filing Prior 5)	ity Statement, 2 pages,			
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Case 1:21-cv-01015-JLH Doo	tument 435-1 File Application Nymboro	d 12/	18/23 Page 320 of 361 PageID 15/05172	
	Filing Date		2017-09-14	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	First Named Inventor Steph		hen Donald WILTON	
	Art Unit		1674	
(not for Submission under or or it not)	Examiner Name	K. Ch	ong	
	Attorney Docket Numb	er	AVN-008CN41	

¹ See Kind Codes of USPTO Patent Documents at <u>www.USPTO.GOV</u> or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

Case 1:21-cv-01015-JLH Doo	tument 435-1 File Application Nymber File	d 12/	18/23 Page 321 of 361 PageID	
	l		2017-09-14	
INFORMATION DISCLOSURE	First Named Inventor	Steph	en Donald WILTON	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1674	
(Notion Submission under or of K 1.00)	Examiner Name	K. Ch	ong	
	Attorney Docket Numb	er	AVN-008CN41	

CERTIF	CA	TION	STA	TEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

П

That no item of information contained in the information disclosure statement was cited in a communication from a
foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification
after making reasonable inquiry, no item of information contained in the information disclosure statement was known to
any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure
statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

- X The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- X A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Arny E. Mandragouras, Esq./	Date (YYYY-MM-DD)	2018-01-05
Name/Print	Amy E. Mandragouras, Esq.	Registration Number	36,207

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

United States Patent and Tradem#R83049ice

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVENUE, N.W. WASHINGTON, DISTRICT OF COLUMBIA 20005 UNITED STATES OF AMERICA

EXAMINER

CHONG, KIMBERLY

ART UNIT PAPER NUMBER

1674

DATE MAILED: 04/26/2018

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/705,172	09/14/2017	Stephen Donald WILTON	4140.01500A9	2879

TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	07/26/2018

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Document 425 3 TR Filed 12/18/23 Case 1:21-cv-01015-JLH Page 324 of 361 PageID

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 153767 7590 04/26/2018 Certificate of Mailing or Transmission STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. 1100 NEW YORK AVENUE, N.W. WASHINGTON, DISTRICT OF COLUMBIA 20005 UNITED STATES OF AMERICA (Depositor's nam (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/14/2017 Stephen Donald WILTON 15/705,172 4140.01500A9 2879 TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF ENTITY STATUS ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE APPLN, TYPE SMALL. \$500 \$0.00 \$0.00 \$500 07/26/2018 nonprovisional **EXAMINER** ART UNIT CLASS-SUBCLASS 1674 CHONG, KIMBERLY 536-024500 1. Change of correspondence address or indication of "Fee Address" (37 2. For printing on the patent front page, list CFR 1.363). (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, ☐ Change of correspondence address (or Change of Correspondence (2) The name of a single firm (having as a member a Address form PTO/SB/122) attached. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is "Fee Address" indication (or "Fee Address" Indication form PTO/ listed, no name will be printed. SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent) : 🔲 Individual 🖵 Corporation or other private group entity 🖵 Government 4a. The following fee(s) are submitted: 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ Issue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. Advance Order - # of Copies The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue Applicant certifying micro entity status. See 37 CFR 1.29 fee payment in the micro entity amount will not be accepted at the risk of application abandonment. NOTE: If the application was previously under micro entity status, checking this box will be taken ☐ Applicant asserting small entity status. See 37 CFR 1.27 to be a notification of loss of entitlement to micro entity status. NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro ■ Applicant changing to regular undiscounted fee status. entity status, as applicable. NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications. Authorized Signature

Page 2 of 3

Date

Registration No.

OMB 0651-0033

Typed or printed name

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 325 of 361 PageID United States Patent and Tradem#rk3044ce

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

www.uspto.gov

ATTORNEY DOCKET NO APPLICATION NO FILING DATE FIRST NAMED INVENTOR CONFIRMATION NO. 15/705.172 09/14/2017 Stephen Donald WILTON 4140.01500A9 2879 **EXAMINER** 7590 04/26/2018 STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. CHONG, KIMBERLY 1100 NEW YORK AVENUE, N.W. ART UNIT PAPER NUMBER WASHINGTON, DISTRICT OF COLUMBIA 20005 UNITED STATES OF AMERICA 1674 DATE MAILED: 04/26/2018

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b) (2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

	Application No. 15/705,172	Applicant(s) WILTON et al.		
Notice of Allowability	Examiner KIMBERLY CHONG	Art Unit 1674	AIA Status No	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RID of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED ir or other appropriate commu GHTS. This application is s	n this application. If no unication will be mailed	t included d in due course. THIS	
1. ☐ This communication is responsive to 04/04/2018. ☐ A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was	/were filed on			
2. An election was made by the applicant in response to a resrestriction requirement and election have been incorporated		n during the interview	on; the	
3. The allowed claim(s) is/are 2-3. As a result of the allowed of Highway program at a participating intellectual property off http://www.uspto.gov/patents/init_events/pph/index.jsp	ice for the corresponding ap	plication. For more int	formation, please see	
4. Acknowledgment is made of a claim for foreign priority unde	er 35 U.S.C. § 119(a)-(d) or	(f).		
Certified copies:				
a) □All b) □ Some *c) □ None of the:				
 Certified copies of the priority documents hav Certified copies of the priority documents hav Copies of the certified copies of the priority do 	e been received in Applicati		e application from the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le areply complying wi	th the requirements	
5. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.			
including changes required by the attached Examiner's Paper No./Mail Date		in the Office action of	f	
Identifying indicia such as the application number (see 37 CFR 1 sheet. Replacement sheet(s) should be labeled as such in the he		_	nt (not the back) of each	
6. DEPOSIT OF and/or INFORMATION about the deposit of E attached Examiner's comment regarding REQUIREMENT F				
Attachment(s)				
1. Notice of References Cited (PTO-892)		s Amendment/Comme		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	6. ☑ Examiner	s Statement of Reaso	ns for Allowance	
 Examiner's Comment Regarding Requirement for Deposit of Biological Material Interview Summary (PTO-413), 	7. 🗌 Other	<u>_</u> .		
Paper No./Mail Date. <u>04/09/2018</u> .				
/KIMBERLY CHONG/ Primary Examiner, Art Unit 1674				
Filliary Examiner, Art Unit 1074				

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-13)

Notice of Allowability

Part of Paper No./Mail Date 20180414

#: 33047 Application/Control Number: 15/705,172

Art Unit: 1674

Page 2

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent

provisions.

The following is an examiner's statement of reasons for allowance: the Terminal

Disclaimer filed 04/04/2018 is approved and overcomes the Double Patenting Rejection

of claims 2 and 3.

Claims 2 and 3 are allowed.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to **KIMBERLY CHONG** whose telephone number is

(571)272-3111. The examiner can normally be reached Monday thru Friday between

M-F 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful please contact

the SPE for 1674 Ram Shukla at 571-272-0735. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Patent applicants with problems or questions regarding electronic images that

can be viewed in the Patent Application Information Retrieval system (PAIR) can now

Application/Control Number: 15/705,172 Page 3

Art Unit: 1674

contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public. For more information about the PAIR system, see http://pair-direct.uspto.gov.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

/Kimberly Chong/ Primary Examiner Art Unit 1674

Case 1:21-cv-01015-JLH Document 435-1		330 of 361 P	ageID			
	Application No. 15/705,172	Applicant(s) WILTON et al.				
Applicant-Initiated Interview Summary	Examiner KIMBERLY CHONG	Art Unit 1674	AIA Status No			
All participants (applicant, applicants representative, PTO	personnel):					
(1) KIMBERLY CHONG.	(3)					
(2) <u>NEIL SHULL</u> .	(4)					
Date of Interview: 09 April 2018.						
Type: 🗹 Telephonic 🗌 Video Conference 🗆 Personal [copy given to: 🗀 applicant	applicant's representative]					
Exhibit shown or demonstration conducted:	□ No.					
Issues Discussed □101 □112 □102 □103 ☑ (For each of the checked box(es) above, please describe below the issue and detail	Others led description of the discussion)					
Claim(s) discussed:						
Identification of prior art discussed:						
Substance of Interview (For each issue discussed, provide a detailed description and indicate if agreement reference or a portion thereof, claim interpretation, proposed amendments, arguments.		lentification or clarifica	ation of a			
Confirmed that the Terminal Disclaimer was filed and appr	oved. Claims 2 and 3 are in co	ndition for allowa	nce.			
Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview						
Examiner recordation instructions : Examiners must summarize the su the substance of an interview should include the items listed in MPEP 713 general thrust of each argument or issue discussed, a general indication o general results or outcome of the interview, to include an indication as to w	.04 for complete and proper recordatio fany other pertinent matters discussed	n including the identi I regarding patentabi	fication of the lity and the			
☐ Attachment						
/KIMBERLY CHONG/ Primary Examiner, Art Unit 1674						

U.S. Patent and Trademark Office PTOL-413 (Rev. 8/11/2010) Paper No. 20180414 Interview Summary

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 331 of 361 PageID

Summary of Record 36 Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,-
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
 - (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 332 of 361 PageID

	Application/Control No. 55051	Applicant(s)/Patent Under Reexamination
Issue Classification	15/705,172	WILTON et al.
	Examiner	Art Unit
	KIMBERLY CHONG	1674

CPC					
Symbol	***************************************		Туре	Version	
C12N	/ 15	/ 113	F	2013-01-01	
C12N	/ 2320	/ 30	A	2013-01-01	
C12N	/ 2310	/ 3341	A	2013-01-01	
C12N	/ 2310	/ 321	A	2013-01-01	
C12N	/ 2310	/ 315	A	2013-01-01	
C12N	/ 2310	/ 3519	A	2013-01-01	
C12N	/ 2310	/ 3233	A	2013-01-01	
C12N	/ 2310	/ 11	A	2013-01-01	
C12N	/ 2320	/ 33	A	2013-01-01	
C12N	/ 2310	/ 33	A	2013-01-01	

CPC Combination Sets				
Symbol	Туре	Set	Ranking	Version

NONE		Total Claim	s Allowed:
(Assistant Examiner)	(Date)	2	
/KIMBERLY CHONG/ Primary Examiner, Art Unit 1674	14 April 2018	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	none

U.S. Patent and Trademark Office

CROSS REFERENCE	. ,			
CLASS		IBCLASS (ONE SU		

24.5

NONE		Total Claim	s Allowed:
(Assistant Examiner)	(Date)	2	
/KIMBERLY CHONG/ Primary Examiner, Art Unit 1674	14 April 2018	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	none

U.S. Patent and Trademark Office

536

Part of Paper No.: 20180414

	Application/Control No. 33053	Applicant(s)/Patent Under Reexamination
Issue Classification	15/705,172	WILTON et al.
	Examiner	Art Unit
	KIMBERLY CHONG	1674

9 (Claims re	numbe	ered in th	ne same	e order a	s prese	ented by	applica	ant [] CPA	· 🗸	T.D.	☐ R.1	.47	000000000000000000000000000000000000000
CLAIM	S						***************************************								
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NONE		Total Claim	s Allowed:
(Assistant Examiner)	(Date)	2	
/KIMBERLY CHONG/ Primary Examiner, Art Unit 1674	14 April 2018	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	none

U.S. Patent and Trademark Office

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 335 of 361 PageID

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Search Notes	15/705,172	WILTON et al.
	Examiner	Art Unit
	KIMBERLY CHONG	1674

CPC - Searched*		
Symbol	Date	Examiner
C07H 21/04	9/29/2017	KC

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*				
Class	Subclass	Date	Examiner	

^{*} See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
SEQ ID No. 195	9/29/2017	KC
PALM inventor name search	9/29/2017	KC
updated	04/09/2018	KC

Interference Search				
US Class/CPC Symbol US Subclass/CPC Group Date Examiner				
536	24.5	04/09/2018	KC	

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents
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Alexandria, Virginia 22313-1450
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OF <u>Fax</u> (5/1)-2/3-2885

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NOTE: If the application was previously under micro entity status, checking this box will be taken Applicant certifying micro entity status. See 37 CFR 1.29. Applicant asserting small entity status. See 37 CFR 1.27 to be a notification of loss of entitlement to micro entity status. NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro Applicant changing to regular undiscounted fee status. entity status, as applicable. NOTE: This form must be signed in accordance with \$7 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications Authorized Signature talanda kalam

Page 2 of 3

PTOL-85 Part B (10-13) Approved for use through 10/31/2013.

Enc K. Steffe

Joha &

Typed or printed name

OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Registration No.

36,688

	135-1 Filed 12/18/23 Page 337 of 361 PageID
Electronic Aci	knowledgement Receipt
EFS ID:	32457433
Application Number:	15705172
International Application Number:	
Confirmation Number:	2879
Title of Invention:	ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF
First Named Inventor/Applicant Name:	Stephen Donald WILTON
Customer Number:	153767
Filer:	Neil P. Shull/Debbie Colonna
Filer Authorized By:	Neil P. Shull
Attorney Docket Number:	4140.01500A9
Receipt Date:	26-APR-2018
Filing Date:	14-SEP-2017
Time Stamp:	17:27:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
			1007577		
1	Issue Fee Payment (PTO-85B)	4140_01500A9_Filing_IssueFee .pdf	3747e1587b1b47d7367c0190dc44b5d534 0e423e	no	1

Case 1:21-cv-01015-JLH	Document 435-1 Filed 12/1	.8/23 Page 338 of 361 PageID	
Information: #: 33057			
	Total Files Size (in byte	es): 1007577	

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 339 of 361 PageID

#: 33058

To: e-office@sternekessler.com,jcovert@sternekessler.com,

From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov

Subject: Private PAIR Correspondence Notification for Customer Number 153767

Apr 26, 2018 03:49:35 AM

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Application Document Mailroom Date Attorney Docket No. 15705172 NOA 04/26/2018 4140.01500A9 INTV.SUM.APP 04/26/2018 4140.01500A9

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Case 1:21-cv-01015-JLH

Document 435-1

35-1 Filed 12/18/23 #: 33059 Page 340 of 361 PageID

APR-26-2018 18:54

SKGF

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P.001

ERIC K. STEFFE
DIRECTOR
(202) 772-8625
ESTEFFE@STERNEKESSLER.COM

RECEIVED CENTRAL FAX CENTER APR 2 6 2018

F	ax
A.	U.A.

☑ Urgent

Return reply requested

Original will be sent as confirmation

To: USPTO

Date: April 26, 2018

Attention: USPTO Fee Payment

Re: Appl. No. 15/705,172; Filed 09/14/17

For: ANTISENSE OLIGONUCLEOTIDES FOR

INDUCING EXON SKIPPING AND METHODS OF USE THEREOF

Inventors: WILTON et al.

Pages (including cover sheet): 2

Fax No: 571-273-8300

From: Debbie Colonna

Our Reference: 4140.01500A9

Message

Submission of Issue Fee Payment (small entity) for Appl. No. 15/705,172

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APR 2 6 2018

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153767 7590 04/26/2018 STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVENUE, N.W. WASHINGTON, DISTRICT OF COLUMBIA 20005 UNITED STATES OF AMERICA

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(Depositor's nam (Signature

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTO	DRNEY DOCKET NO.	CONFIRMATION NO.
15/705,172	09/14/2017		Stephen Donald WILTON		4140.01500A9	2879
TITLE OF INVENTION	N: ANTISENSE OLIGON	VUCLEOTIDES FOR IN	DUCING EXON SKIPPIN	G AND METHODS OF	USE THEREOF	
APPLN: TYPE	ENTITY STATUS	ISSUE FÉÉ DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	07/26/2018
EXA	MINER	ART UNIT	CLASS-SUBCLASS			
CHONG, I	KIMBERLY	1674	536-024500			
L. Change of correspond CFR 1.363).	lence address or indicatio	n of "Fee Address" (37		3 registered patent attor	neys Channa M	
Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.				essler, Goldstein P.L.L.C.		
		registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is				
SB/47; Rev 03-02 or Number is required	dication (or "Fee Address more recent) attached. U I.	se of a Customer	listed, no name will be	orinted.		
			THE PATENT (print or typ			
PLEASE NOTE: Unl as set forth in 37 CFI	less an assignee is identifi R 3.11. Completion of th	ed below, no assignee data is form is NOT a substitu	will appear on the patent. I te for filing an assignment.			as been filed for recordation
(A) NAME OF ASSI	IGNEE		(B) RESIDENCE; (CITY	and STATE OR COUN	(BX)	
The University of Western Australia			Crawley, Australi	ia		

Please check the appropriate assignee category or categories (will not be printed on the patent) : Individual Corporation or other private group entity Government 4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: A check is enclosed. Issue Fee Payment by credit card. Form PTO-2038 is attached. Publication Fee (No small entity discount permitted) The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 19-0036 (enclose an extra copy of this for Advance Order - # of Copies ... (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment. NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status. Applicant certifying micro entity status. See 37 CFR 1.29. Applicant asserting small entity status. See 37 CFR 1.27 NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro Applicant changing to regular undiscounted fee status. entity status, as applicable. NOTE: This form must be signed in accordance with 57 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications

Authorized Signature John Ma Steffe

Typed or printed name

Regist**04/00/2018 H99**0888 00000024 190036

Page 2 of 3

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e 1:21-cv-01015-JLH Document 435-1 Filed 12/ #: 33061 United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/705,172	09/14/2017	Stephen Donald WILTON	4140.01500A9	2879
7	590 05/03/2018	EXAMINER		
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			CHONG, KIMBERLY	
			ART UNIT PAPER NUMBER	
			1674	

DATE MAILED: 05/03/2018

PRIORITY ACKNOWLEDGMENT

U	placed of record in the file.
Ø	2. Applicant's claim for priority, based on papers filed in parent Application Number submitted under 35 U.S.C. 119, is acknowledged.
	3. The priority papers, submitted, after payment of the issue fee are □ acknowledged While the priority claim or certified copy filed will be placed in the file record, neither will be reviewed and the patent when published will not include the priority claim. See 37 CFR 1.55(a)(2). □ not acknowledged since the processing fee in 37 CFR 1.17(i) has not been received.
	4. For utility and plant applications filed on or after November 29, 2000, the priority claim is not entered because the claim was not presented within the time limit required by 37 CFR 1.55(a)(1). A petition to accept a delayed claim for priority under 35 U.S.C. 119(a) - (d) or (f), or 365(a) may be filed. See 37 CFR 1.55(c) and MPEP 201.14(a).
	79/C-, Porz- -272-4200 or 1-888-786-0101
571	-272 - /4200 or 1-888-786-0101
App	lication Assistance Unit
Offic	ce of Data Management

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 343 of 361 PageID #: 33062

To: e-office@sternekessler.com,jcovert@sternekessler.com,

From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov

Subject: Private PAIR Correspondence Notification for Customer Number 153767

May 05, 2018 07:36:42 AM

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Application Document Mailroom Date Attorney Docket No. 15705172 M327 05/03/2018 4140.01500A9

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#: 33063 United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/705,172	06/12/2018	9994851	4140.01500A9	2879

153767

4140.01500A9

Case 1:21-cv-01015-JLH

05/23/2018

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

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APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

The University of Western Australia, Crawley, AUSTRALIA; Stephen Donald WILTON, Applecross, AUSTRALIA; Sue FLETCHER, Bayswater, AUSTRALIA; Graham MCCLOREY, Bayswater, AUSTRALIA;

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Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 345 of 361 PageID #: 33064

e-office@sternekessler.com.icovert@sternekessler.com.

From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov

Subject: Private PAIR Correspondence Notification for Customer Number 153767

May 24, 2018 04:04:25 AM

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Application Document Mailroom Date Attorney Docket No. 15705172 ISSUE.NTF 05/23/2018 4140.01500A9

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UNITED STATES PATENT AND TRADEMARK OFFICE PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: WILTON et al.

Confirmation No.: 2879

Applicant: The University of Western

Australia

Art Unit: 1674

Application No.: 15/705,172

Examiner: Chong, Kimberly

Filing Date: September 14, 2017

Atty. Docket: 4140.01500A9

Title: ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND

METHODS OF USE THEREOF

Statement of Substance of Interview In Accordance With 37 C.F.R. § 1.133(b) and M.P.E.P. § 713.04

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Commissioner:

In reply to the Interview Summary (Form PTOL-413) mailed by the U.S. Patent & Trademark Office with the Notice of Allowance on April 26, 2018, Applicant submits herewith the following Statement of Substance of the Interview held with Examiner Kimberly Chong, on April 9, 2018, regarding the above captioned application.

During the interview, the Examiner confirmed that the Terminal Disclaimer filed on April 3, 2018 was approved and that the application would be allowed.

Respectfully submitted,

STERNE, KESSMER, GOLDSTEIN & FOX P.L.L.C.

Eric K. Steffe

Attorney for Applicant Registration No. 36,688

Date:

1100 New York Avenue, N.W. Washington, D.C. 20005-3934

(202) 371-2600

9396506 1.docx

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 347 of 361 PageID				
Electronic Aci	Electronic Acknowledgement Receipt			
EFS ID:	32743284			
Application Number:	15705172			
International Application Number:				
Confirmation Number:	2879			
Title of Invention:	ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF			
First Named Inventor/Applicant Name:	Stephen Donald WILTON			
Customer Number:	153767			
Filer:	Neil P. Shull/Debbie Colonna			
Filer Authorized By:	Neil P. Shull			
Attorney Docket Number:	4140.01500A9			
Receipt Date:	29-MAY-2018			
Filing Date:	14-SEP-2017			
Time Stamp:	15:14:10			
Application Type:	Utility under 35 USC 111(a)			

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Applicant summary of interview with examiner	4140_01500A9_Filing_Stateme nt Substance of Interview.pdf	407819 	no	1
Warnings:					

Case 1:21-cv-01015-JLH	Document 435-1 Filed 12/18/	23 Page 348 of 361 PageID
information:	#: 33067	
	Total Files Size (in bytes):	407819

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/47 (03-09) Approved for use through 05/31/2015. OMB 0651-0016
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"FEE ADDRESS" INDICATION FORM				
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For the following listed applic 1.363 the address associated		s the "Fee Address" under the provisions of 37 CFR		
X Customer Number:	154896			
OR The attached Request PATENT (if kn		SB/125) form. APPLICATION NUMBER		
9,994		15/705,172		
Completed by (check one): Applicant/Inventor		Manh Hon Hange Signature		
X Attorney or Agent of record		Marsha Rose Gillentine Typed or printed name		
Assignee of record of the Statement under 37 CFF (Form PTO/SB/96)	e entire interest. See 37 CFR 3.73(b) is enclosed.	3.71. (202) 371-2600 Requester's telephone number		
Assignee recorded at Re	elFrame	Date		
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more that one signature is required, see below*.				
* Total of	forms are submitted.			

This collection of information is required by 37 CFR 1.363. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 5 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alex andria, VA 22313-1450. DO NOT SEND COMPLETE D FORMS TO THIS A DDRESS. SEND TO: Mail Stop M Correspondence, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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EFS ID:	33011664
Application Number:	15705172
International Application Number:	
Confirmation Number:	2879
Title of Invention:	ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF
First Named Inventor/Applicant Name:	Stephen Donald WILTON
Customer Number:	153767
Filer:	Marsha Rose Gillentine
Filer Authorized By:	
Attorney Docket Number:	4140.01500A9
Receipt Date:	26-JUN-2018
Filing Date:	14-SEP-2017
Time Stamp:	18:24:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Miscellaneous Incoming Letter	4140_01500A9_Fee_Address_I ndication_Form.pdf	9804f1317f83faa445c0b93a6b2ad6474a15 48c7	no	1
Warnings:				······································	

Case 1:21-cv-01015-JLH	Document 435-1 Filed 12/18	/23 Page 351 of 361 PageID
information:	#: 33070	
	Total Files Size (in bytes	165669

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

U.S. Patent No.: 9,994,851 Confirmation No.: 2879

Date of Patent: June 12, 2018 Art Unit: 1674

Inventors: WILTON *et al.* Atty. Docket: 4140.01500A9

Title: ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND

METHODS OF USE THEREOF

Request for Certificate of Correction Under 37 C.F.R. § 1.323 For Applicant's Mistake

Attn: Certificate of Correction Branch

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Commissioner:

It is hereby requested that a Certificate of Correction under 37 C.F.R. § 1.323 be issued for the above-captioned United States Patent. This Certificate of Correction is being requested due to mistakes which appear in the printed patent. The mistakes made by Inventors are of a clerical or typographical nature, or of a minor character. Patentees submit that correction of these errors does not introduce new matter.

Specifically, the printed patent contains the following errors for which a Certificate of Correction is respectfully requested:

In the specification

Column 1, Line 26, before "STATEMENT REGARDING SEQUENCE LISTING", insert:

--STATEMENT AS TO FEDERALLY SPONSORED RESEARCH

This invention was made with government support under grant number R01 NS044146 awarded by the National Institutes of Health. The government has certain rights in the invention.--

- 2 -

WILTON *et al.* U.S. Patent No. 9,994,851

Remarks

The above-noted corrections do not involve such changes in the patent as would constitute new matter or would require reexamination.

A completed Form PTO/SB/44 accompanies this request, with the above-noted corrections printed thereon. Accordingly, a Certificate of Correction is believed proper and issuance thereof is respectfully requested.

This request is accompanied by payment of the fee set forth in 37 C.F.R. § 1.20(a). Fee payment is provided through online credit card payment. The Commissioner is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

March Han Hillentine

Marsha Rose Gillentine Attorney for Patentees

Registration No. 58,403

Date: June 29, 2018

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

9578306_1.docx

Approved for use through 08/13/2013. OMB 0651-0033 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. 9,994,851

APPLICATION NO. : 15/705,172

ISSUE DATE June 12, 2018

INVENTOR(S) WILTON et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the specification

Column 1, Line 26, before "STATEMENT REGARDING SEQUENCE LISTING", insert:

--STATEMENT AS TO FEDERALLY SPONSORED RESEARCH

This invention was made with government support under grant number R01 NS044146 awarded by the National Institutes of Health. The government has certain rights in the invention.--

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Sterne, Kessler, Goldstein & Fox P.L.L.C.

1100 New York Avenue, NW

Washington DC 20005-3934

Atty. Dkt. No. 4140.01500A9

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Electronic Patent Application Fee Transmittal						
Application Number:	15705172					
Filing Date:	14-	-Sep-2017				
Title of Invention:	ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF					
First Named Inventor/Applicant Name:	Stephen Donald WILTON					
Filer:	Marsha Rose Gillentine/Beverly Swann					
Attorney Docket Number:	4140.01500A9					
Filed as Large Entity						
Filing Fees for Utility under 35 USC 111(a)						
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)	
Basic Filing:						
Pages:						
Claims:						
Miscellaneous-Filing:						
Petition:						
Patent-Appeals-and-Interference:						
Post-Allowance-and-Post-Issuance:						
CERTIFICATE OF CORRECTION		1811	1	150	150	

Case 1:21-cv-01015-JLH D Description	#: 330 75 Code	2/18/23 Pa	age 356 of 3 Amount	61 PageID Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
	Т	Total in USD (\$)		150

	nt 435-1
EFS ID:	33045562
Application Number:	15705172
International Application Number:	
Confirmation Number:	2879
Title of Invention:	ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON SKIPPING AND METHODS OF USE THEREOF
First Named Inventor/Applicant Name:	Stephen Donald WILTON
Customer Number:	153767
Filer:	Marsha Rose Gillentine/Beverly Swann
Filer Authorized By:	Marsha Rose Gillentine
Attorney Docket Number:	4140.01500A9
Receipt Date:	29-JUN-2018
Filing Date:	14-SEP-2017
Time Stamp:	13:04:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$150
RAM confirmation Number	062918INTEFSW13042600
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Case 1:	21-cv-01015-JLH Docume	nt 435-1 Filed 12/18 #: 33077	/23 Page 358 o	f 361 Paç	jeID
File Listing					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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Warnings:	+		1		
Information:					
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2 Request for Certificate of Correction	414001500A9Request.pdf	505e877b7f4400beaba290056a09b206840 c736c	no	2	
Warnings:			<u> </u>		
Information:					
			132779	no	1
3	Request for Certificate of Correction 414001500A9COC.pdf	414001500A9COC.pdf	727d3a3f4034370a2970357ac31ce04c303 b1f65		
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Warnings:			1		
Information:					

Total Files Size (in bytes):

564391

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 359 of 361 PageID #: 33078

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



MARSHA ROSE GILLENTINE

Director (202) 772-8692 MGILLENTINE@STERNEKESSLER.COM

June 29, 2018

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Confirmation No. 2879 Art Unit 1674

Re: U.S. Patent No. 9,994,851; Issue Date: June 12, 2018

(from U.S. Appl. No. 15/705,172; Filing Date: September 14, 2017)

For: ANTISENSE OLIGONUCLEOTIDES FOR INDUCING EXON

SKIPPING AND METHODS OF USE THEREOF

Inventors: WILTON et al. Our Ref: 4140.01500A9

Commissioner:

Transmitted herewith for appropriate action are the following documents:

- 1. Online Credit Card Payment Authorization in the amount of \$150.00 to cover fee for Request for Certificate of Correction;
- 2. Request for Certificate of Correction Under 37 C.F.R. § 1.323 For Applicant's Mistake; and
- 3. Certificate of Correction (PTO/SB/44).

The above-listed documents are filed electronically.

Fee payment is provided through online credit card payment. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency or credit any overpayment to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

March Han Nillentine

Marsha Rose Gillentine Attorney for Patentees

Registration No. 58,403

MRG/ABM/mwf Enclosures

9578300_1.docx

Case 1:21-cv-01015-JLH Document 435-1 Filed 12/18/23 Page 361 of 361 PageID #: 33080

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 9,994,851 B2 Page 1 of 1

APPLICATION NO. : 15/705172 DATED : June 12, 2018 INVENTOR(S) : Wilton et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Specification

Column 1, Line 26, before "STATEMENT REGARDING SEQUENCE LISTING", insert: --STATEMENT AS TO FEDERALLY SPONSORED RESEARCH
This invention was made with government support under grant number R01 NS044146 awarded by the National Institutes of Health. The government has certain rights in the invention.--

Signed and Sealed this Thirty-first Day of July, 2018

Andrei Iancu

Director of the United States Patent and Trademark Office